HISTORY INFORMATION FOR THE FOLLOWING MANUAL:

SERVICE MANUAL

MA2 CHASSIS

MODEL NAME	REMOTE COMMANDER	DESTINATION
KDL-32FA500	RM-YD026	CHILE / PERU
KDL-32FA500	RM-YD026	LATIN NORTH
KDL-37FA500	RM-YD026	CHILE / PERU
KDL-37FA500	RM-YD026	LATIN NORTH

ORIGINAL MANUAL ISSUE DATE: 3/2009

☛ :UPDATED ITEM

REVISION DATE	SUBJECT
3/2009	No revisions or updates are applicable at this time
3/2009	Updated Disassembly Section 1-4. Replaced page 13.
3/2009	Corrected LCD Panel information. Replaced pages 75 & 76.
9/2009	Updated Exploded View Section to remove LCD Panel specific information. Replaced pages 75-76.

LCD DIGITAL COLOR TELEVISION

SONY®

9-883-814-04

Self Diagnosis Supported model

SERVICE MANUAL

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KDL-32FA500

RM-YD026

LCD DIGITAL COLOR TELEVISION

SONY®

9-883-814-04

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SPECIFICATIONS

Power Requirements 120V AC, 60Hz (Latin North Only)
220V, 50/60 Hz (Chile, Peru Only)

Video (IN) 1/2

S Video (4-Pin Mini DIN (VIDEO 1 Only)

Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative
C: 0.286 Vp-p (Burst signal), 75 ohms

Video

1.0 Vp-p, 75 ohms unbalanced, sync negative

Audio

500 mVrms (100% modulation)
Impedance:47 kilohms

COMPONENT IN 1/2

YP_BP_R (Component Video)

Y:1.0 Vp-p, 75 ohms unbalanced, sync negative
P_B:0.7 Vp-p, 75 ohms
P_R:0.7 Vp-p, 75 ohms
Signal format: 480i, 480p, 720p, 1080i

AUDIO

500 mVrms (100% modulation)
Impedance: 47 kilohms

HDMI IN 1/2:

HDMI: Video:480i, 480p, 720p, 1080i
Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits

AUDIO: 500 mVrms (100% modulation)
Impedance: 47 kilohms

AUDIO OUT:

500 mVrms (100% modulation)
More than 500 mVrms (Fixed)

DIGITAL AUDIO OUT (COAXIAL):

PCM 2.0 Coaxial signal

PC IN:

D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive

PC AUDIO INPUT:

Stereo mini jack, 500 mVrms, 47 kilohm

HEADPHONES:

Stereo mini jack
Impedance: ≥ 16 ohms

Licensing Information

Macintosh is a trademark of Apple Inc., registered in the U.S. and other countries.

This TV incorporates High-Definition Multimedia Interface (HDMI™) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Fergason Patent Properties, LLC:
U.S. Patent No. 5, 717, 422
U.S. Patent No. 6, 816, 141

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Dolby, Pro Logic, and the double-D symbol are registered trademarks of Dolby Laboratories.

Blu-ray is a trademark.

"BRAVIA" and BRAVIA, R, BRAVIA Theatre Sync and DMPORT are trademarks or registered marks of Sony Corporation.

"PLAYSTATION" is a registered trademark and "PS3" is a trademark of Sony Computer Entertainment Inc.

Design and specifications are subject to change without notice.

	KDL-32FA500	KDL-37FA500
Power Consumption		
in use	155W	190W
in standby	Less than 1W	
Subwoofer	65W	
Speaker Output (W)	35W (7W X 5) + 30W Subwoofer	
mm	146 x 35 mm	
Dimensions (W x H x D)		
with stand		
mm	912 x 614 x 309 mm	1028 x 669 x 309 mm
without stand		
mm	912 x 543 x 102 mm	1028 x 608 x 113 mm
Satellite Speakers		
mm	167 x 604 x 184 mm	
wall -mount hole pattern (mm)	200 x 200	300 x 300
Mass		
with stand		
kg	17,6 kg	21,6 kg
without stand		
kg	13 kg	17 kg
Satellite Speakers		
kg	1 kg	

All measurements are approximations.

Television system

NTSC American TV Standard
ATSC (8VSB terrestrial) ATSC compliant 8VSB
QAM on cable: ANSI/SCTE 07 2000

Channel coverage

	Analog	Digital
Terrestrial	2-69	2-69
Cable	1-125	1-135

Antenna

75-ohm external terminal for VHF/UHF

Panel System

LCD (Liquid Crystal Display) Panel

Display Resolution (horizontal x vertical):

1,366 dots x 768 lines

Screen Size (measured diagonally)

~ 80cm (KDL-32FA500 Only)
~ 94cm (KDL-37FA500 Only)

Supplied Accessories

Remote Commander RM-YD026
Two Size AA (R6) Batteries
Cable Holder
Operating Instructions
Quick Setup Guide
Warranty Card
Safety and Regulartory Booklet
Software License
DIN Cable

Optional Accessories

Headphones Plug Adapter
Connecting Cables
Wall-Mount Bracket
SU-WL500
HDTV Stand
SU-FL71M
HD15-HD15 Cable
75-ohm Coaxial Cable

WARNINGS AND CAUTIONS

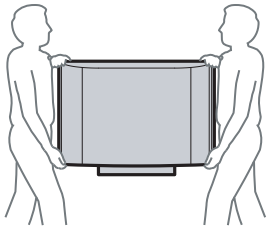
CAUTION

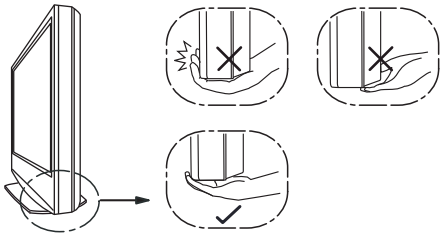
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CARRYING THE TV

To avoid dropping the TV and causing serious injury, be sure to follow these guidelines:

- ☐ Before carrying the TV, disconnect all cables.
- ☐ Carrying the large size TV requires two or more people.
- ☐ When you carry the TV, place your hand as illustrated and hold it securely. Do not put stress on the LCD panel.
- ☐ When lifting or moving the TV, hold it firmly from the bottom. Place your palm directly under the panel.
- ☐ When carrying, do not subject the TV to shocks or vibration, or excessive force.
- ☐ Place your palm directly underneath, but do not squeeze the panel's speaker grill area.





WARNING!!

An isolation transformer should be used during any service to avoid possible shock hazard, because of live chassis. The chassis of this receiver is directly connected to the ac power line.

⚠ SAFETY-RELATED COMPONENT WARNING!!

Components identified by shading and ⚠ mark on the schematic diagrams, exploded views, and in the parts list are critical for safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in supplements published by Sony. Circuit adjustments that are critical for safe operation are identified in this manual. Follow these procedures whenever critical components are replaced or improper operation is suspected.

SAFETY-RELATED COMPONENT WARNING

There are critical components used in LCD color TVs that are important for safety. These components are identified with shading and ⚠ mark on the schematic diagrams and the electrical parts list. It is essential that these critical parts be replaced only with the part number specified in the electrical parts list to prevent electric shock, fire, or other hazard.

NOTE: Do not modify the original design without obtaining written permission from the manufacturer or you will void the original parts and labor guarantee.

USE CAUTION WHEN HANDLING THE LCD PANEL

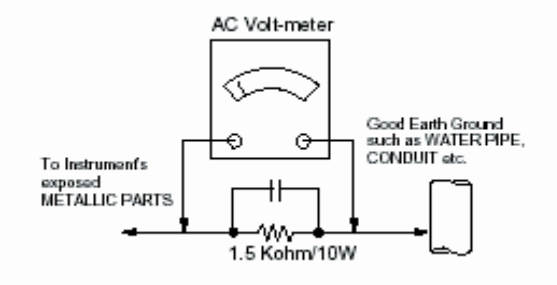
When repairing the LCD panel, be sure you are grounded by using a wrist band.

When installing the LCD panel on a wall, the LCD panel must be secured using the 4 mounting holes on the rear cover.

To avoid damaging the LCD panel:

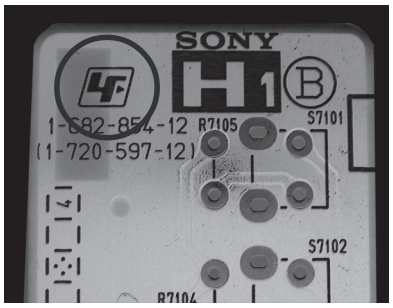
- → do not press on the panel or frame edge to avoid the risk of electric shock.
- → do not scratch or press on the panel with any sharp objects.
- → do not leave the module in high temperatures or in areas of high humidity for an extended period of time.
- → do not expose the LCD panel to direct sunlight.
- → avoid contact with water. It may cause a short circuit within the module.
- → disconnect the AC adapter when replacing the backlight (CCFL) or inverter circuit. (High voltage occurs at the inverter circuit at 650Vrms.)
- → always clean the LCD panel with a soft cloth material.
- → use care when handling the wires or connectors of the inverter circuit. Damaging the wires may cause a short.
- → protect the panel from ESD to avoid damaging the electronic circuit (C-MOS).

LEAKAGE CURRENT HOT CHECK CIRCUIT



example 1

The circuit boards used in these models have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. H1 etc [see example]. The servicing of these boards requires special precautions to be taken as outlined below.



It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints.
Lead Free Solder is available under the following part numbers :

Part number	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade.
This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly soldered connections. Check the entire board surface for solder splashes and bridges.

2. Check the interboard wiring to ensure that no wires are “pinched” or touching high-wattage resistors.

3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.

4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.

5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.

6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.

7. Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

Leakage Test

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instructions.

2. A battery-operated AC milliampmeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson’s 250 and Sanwa SH-63TRD are examples of passive VOMs that are suitable. Nearly all battery-operated digital multimeters that have a 2 VAC range are suitable (see Figure A).

How to Find a Good Earth Ground

A cold-water pipe is a guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms.

If a cold-water pipe is not accessible, connect a 60- to 100-watt trouble- light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side on the line; the lamp should light at normal brilliance if the screw is at ground potential (see Figure B).

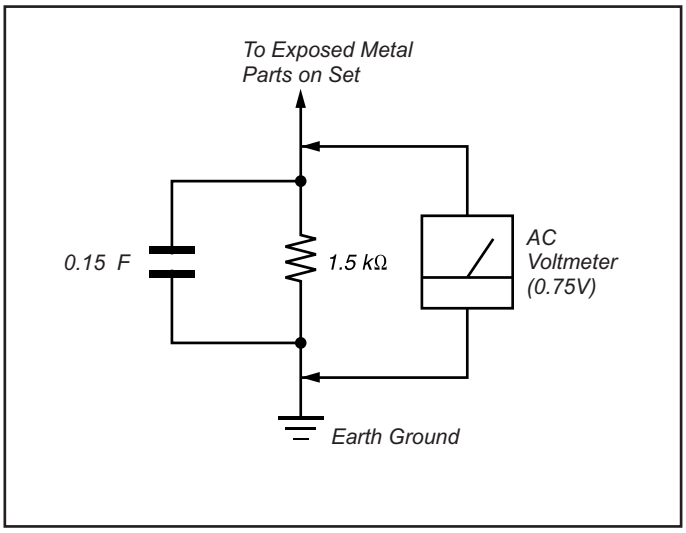


Figure A. Using an AC voltmeter to check AC leakage.

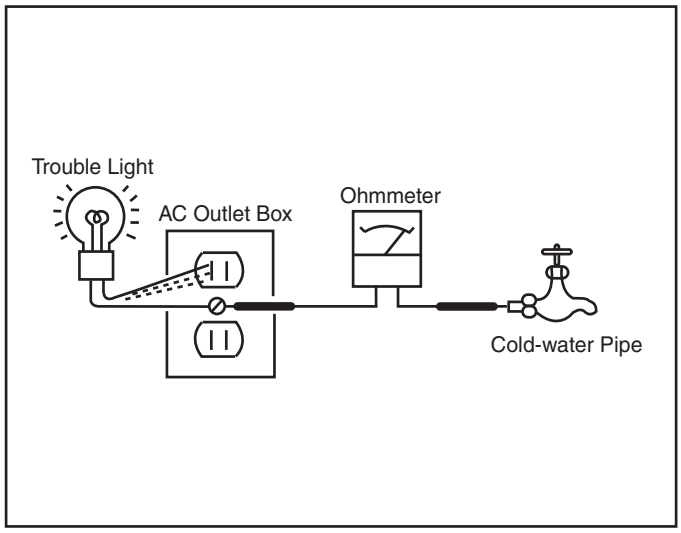


Figure B. Checking for earth ground.

SELF-DIAGNOSTIC FUNCTION

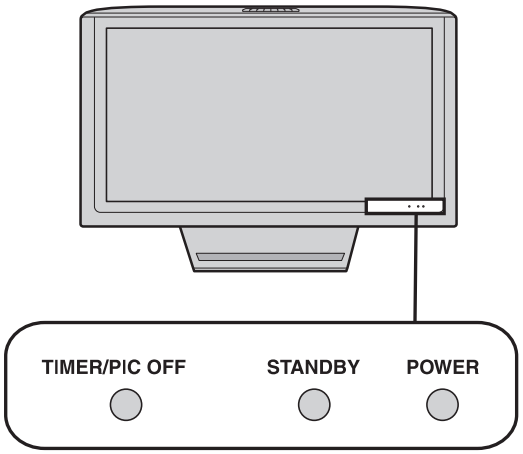
Self Diagnosis Supported model

The units in this manual contain a self-diagnostic function. If an error occurs, the TIMER/PIC OFF LED indicator will automatically begin to flash. The number of times the LED flashes translates to a probable source of the problem. A definition of the TIMER/PIC OFF LED flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the Remote Commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. Diagnostic Test Indicators

When an error occurs, the TIMER/PIC OFF LED indicator will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the indicator will identify the first of the problem areas.

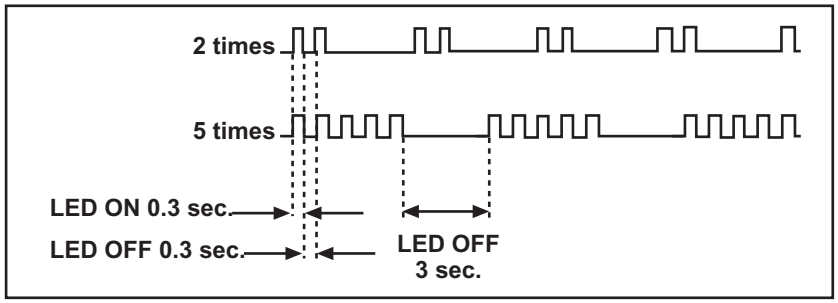
LED Indictors



Description of LED Indictors

LED	LED Type	Description
POWER LED	Green LED	* Light is green when the TV set is on
STANDBY LED	Red LED	* Light is red when the TV set is in PC standby mode.
TIMER/PIC OFF LED	Amber/Green/Red LED	* Light is amber when the timer is set. * Light is green when the Backlight feature is activated. * Blinks red when indicating the TV may need servicing

Display of TIMER/PIC OFF LED Flash Count



LED Indicators

Diagnostic Item Description	Number of times TIMER/PIC OFF LED flashes	Possible Location
Main Power	2 times	BM4 BOARD G1D Board (32") G2D Board (37")
DC Alert 1	3 times	BM4 BOARD
DC Alert 2	4 times	BM4 BOARD
DC Alert 3	5 times	BM4 BOARD
Backlight	6 times	BM4 BOARD G1D Board (32") G2D Board (37") ETC-Inverter MT Board LCD Panel
Temp	7 times	BM4 BOARD Check Ventilation
Audio	8 times	BM4 BOARD G1D Board (32") G2D Board (37")

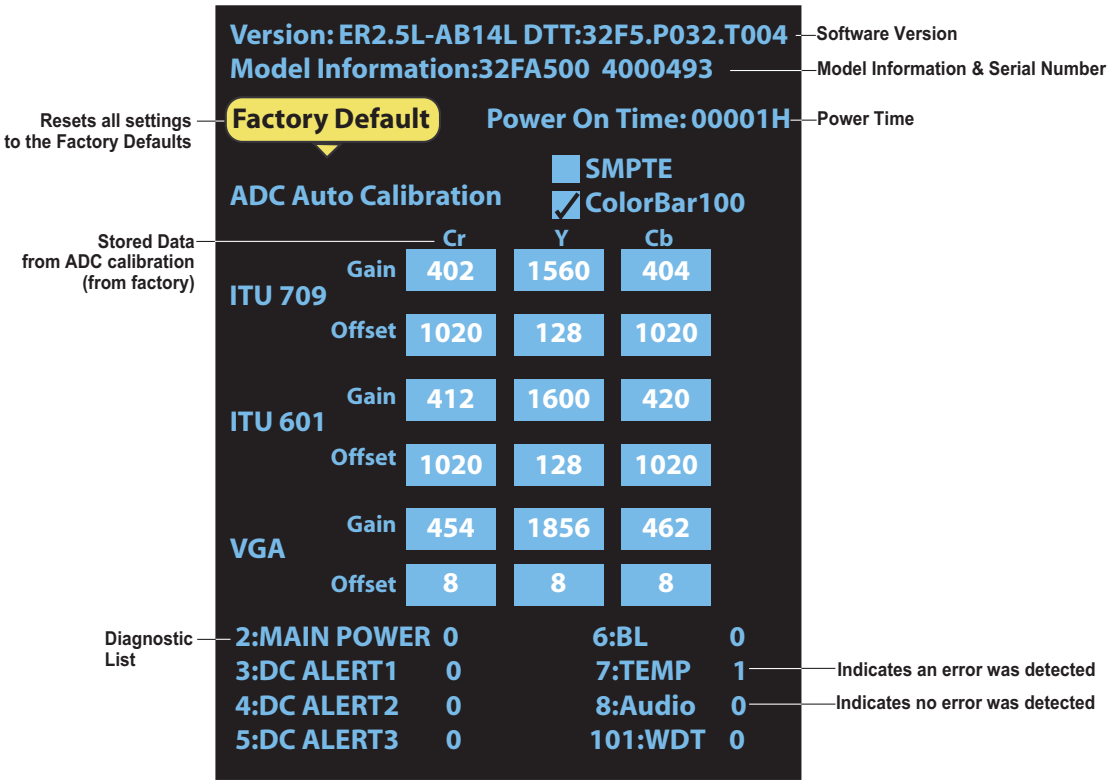
Viewing the Diagnostic List

1. TV must be in standby mode. (Power off).
2. Press the following buttons on the Remote Commander within a second of each other:

   DISPLAY → Channel 5 → Volume + → TV POWER.

   The Self Check list displays. This is the SAME as accessing Service Adjustments.

Results for all of the following diagnostic items are displayed at the bottom of the screen. No error has occurred if the screen displays a "0".



Clearing the Diagnostic List

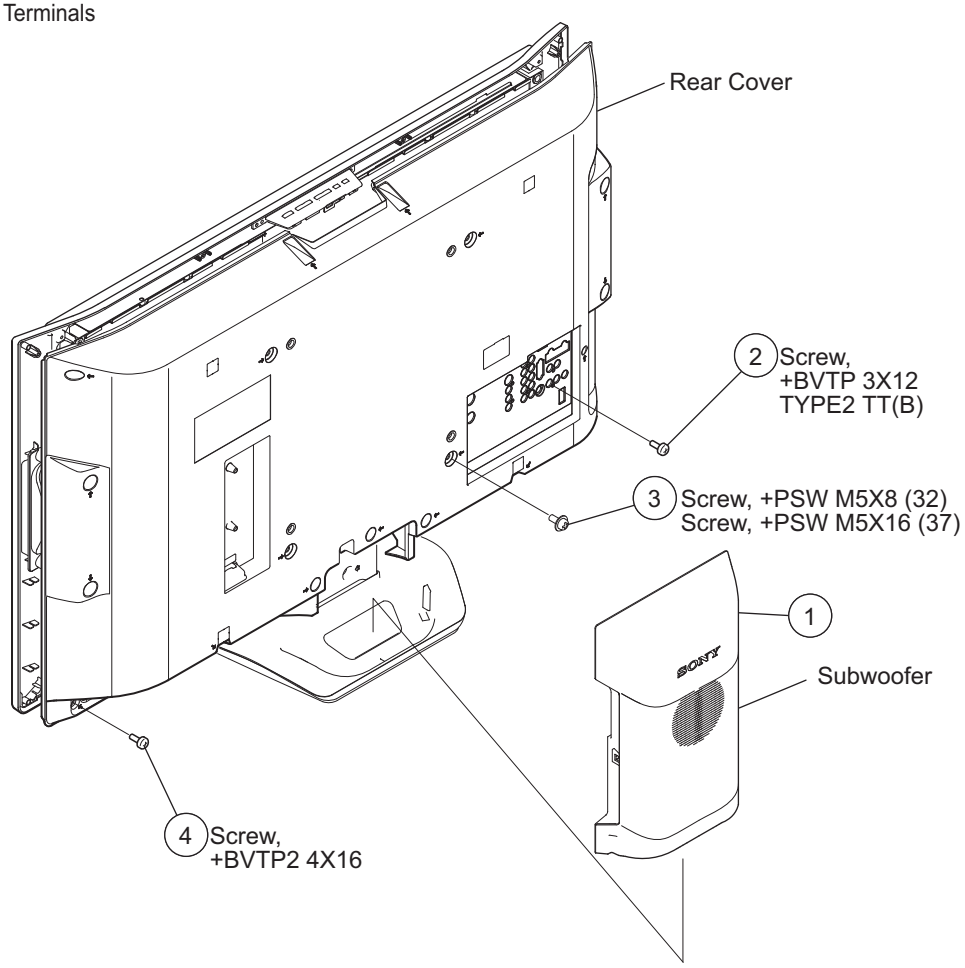
CAUTION: To remove the error indicator number you have to reset the settings back to the Factory Defaults. *This action over-writes all customer settings.* Before performing this reset, contact the customer to determine what adjustments they have made.

1. Using the remote commander, select **Factory Default** button.
2. To reset the Diagnostic List, select **Yes**.
3. To start Auto Program, select **Yes**. NOTE: Allow 30+ minutes for Auto Program to complete.
4. Using the customers information, reset their adjustments.

SECTION 1: DISASSEMBLY

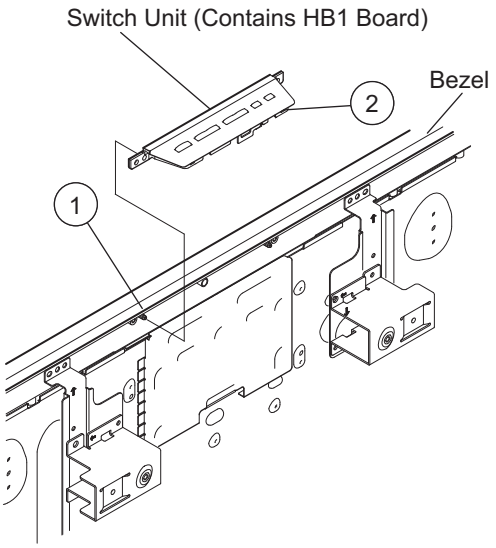
1-1. REAR COVER REMOVAL

1. Disconnect connector assembly and remove Subwoofer from back of the TV unit
2. Remove 2 screws from Terminals
3. Remove 1 screw
   (KDL-32FA500 Only)
   Remove 4 screws
   (KDL-37FA500 Only)
4. Remove 20 screws



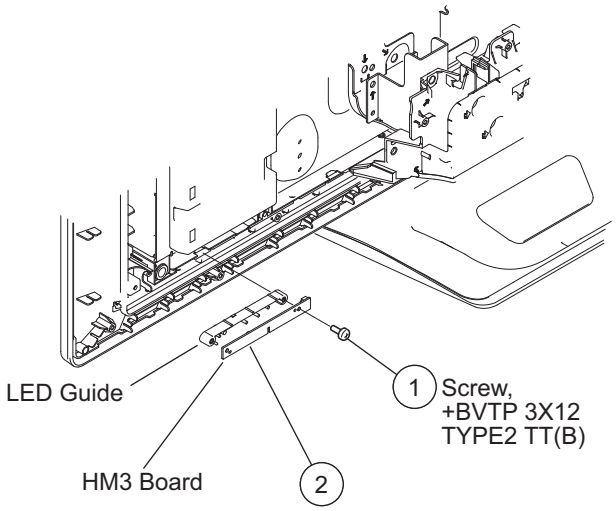
1-2. SWITCH UNIT REMOVAL (CONTAINS HB1 BOARD)

1. Remove from bezel
2. Disconnect 1 connector



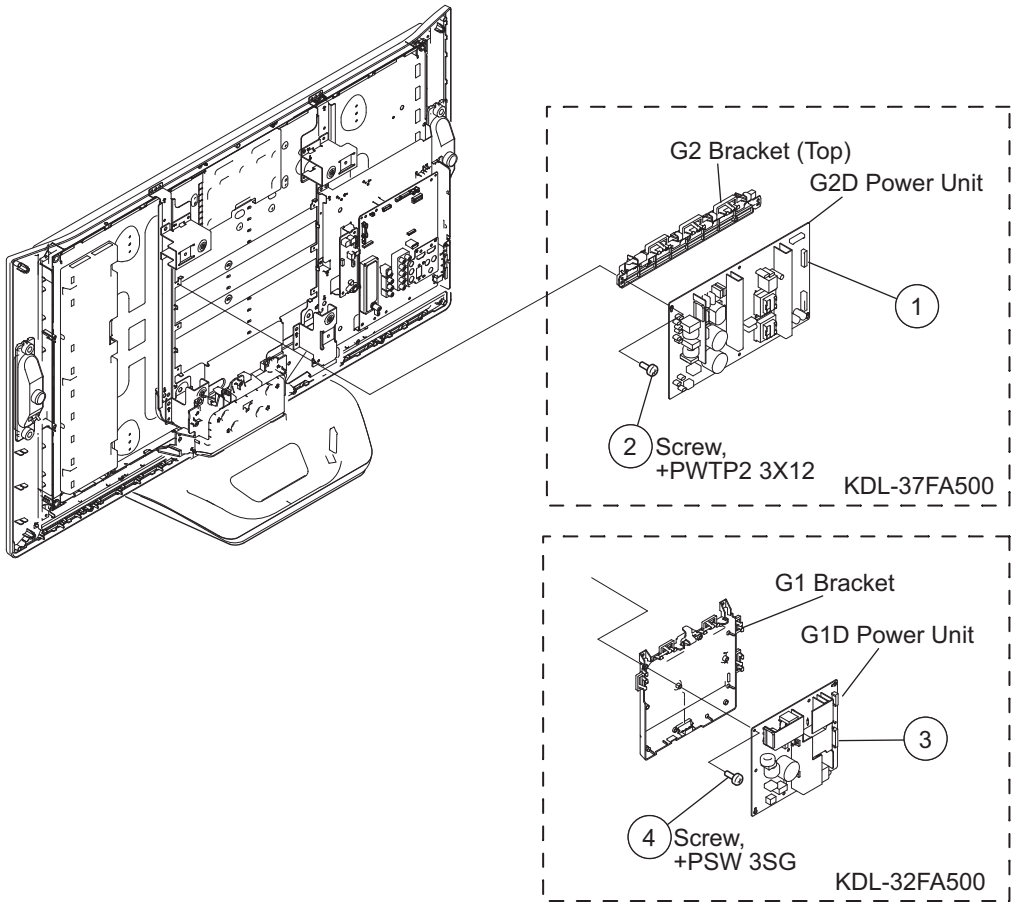
1-3. LED GUIDE/HM3 BOARD REMOVAL

① Remove 2 screws
② Disconnect 1 connector



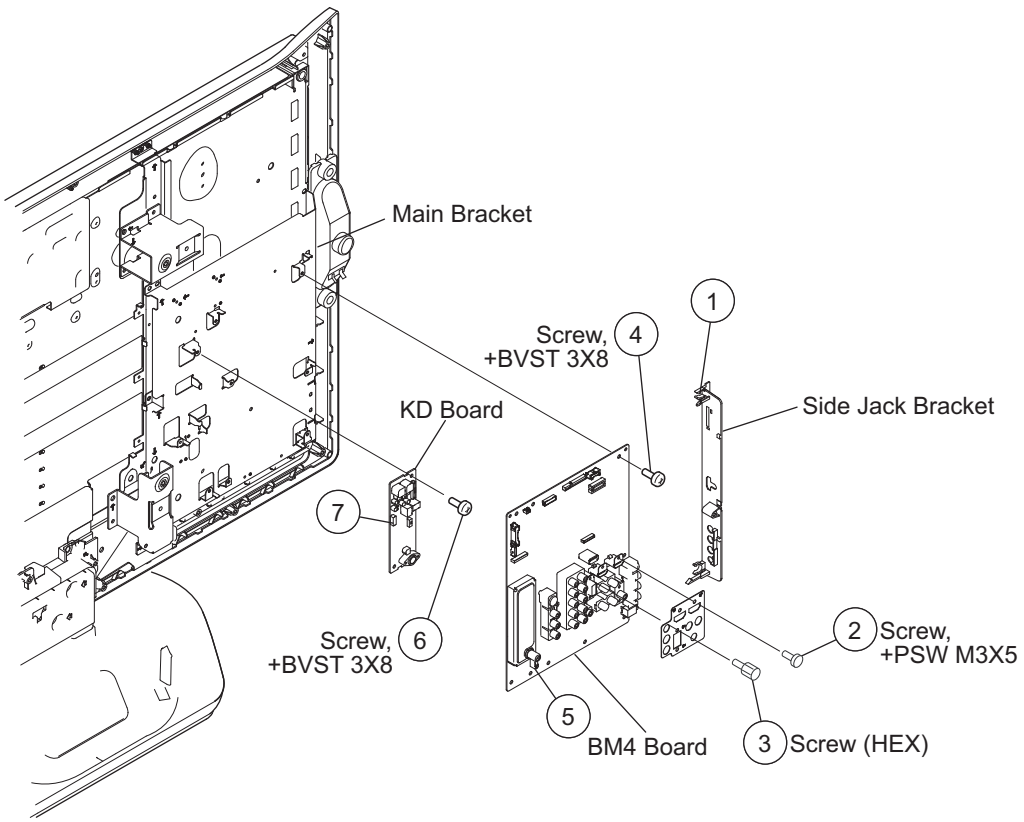
☛ 1-4. POWER UNIT REMOVAL

① Remove 3 connectors (KDL-37FA500 Only)
② Remove 6 screws (KDL-37FA500 Only)
③ Remove 3 connectors (KDL-32FA500 Only)
④ Remove 4 screws (KDL-32FA500 Only)



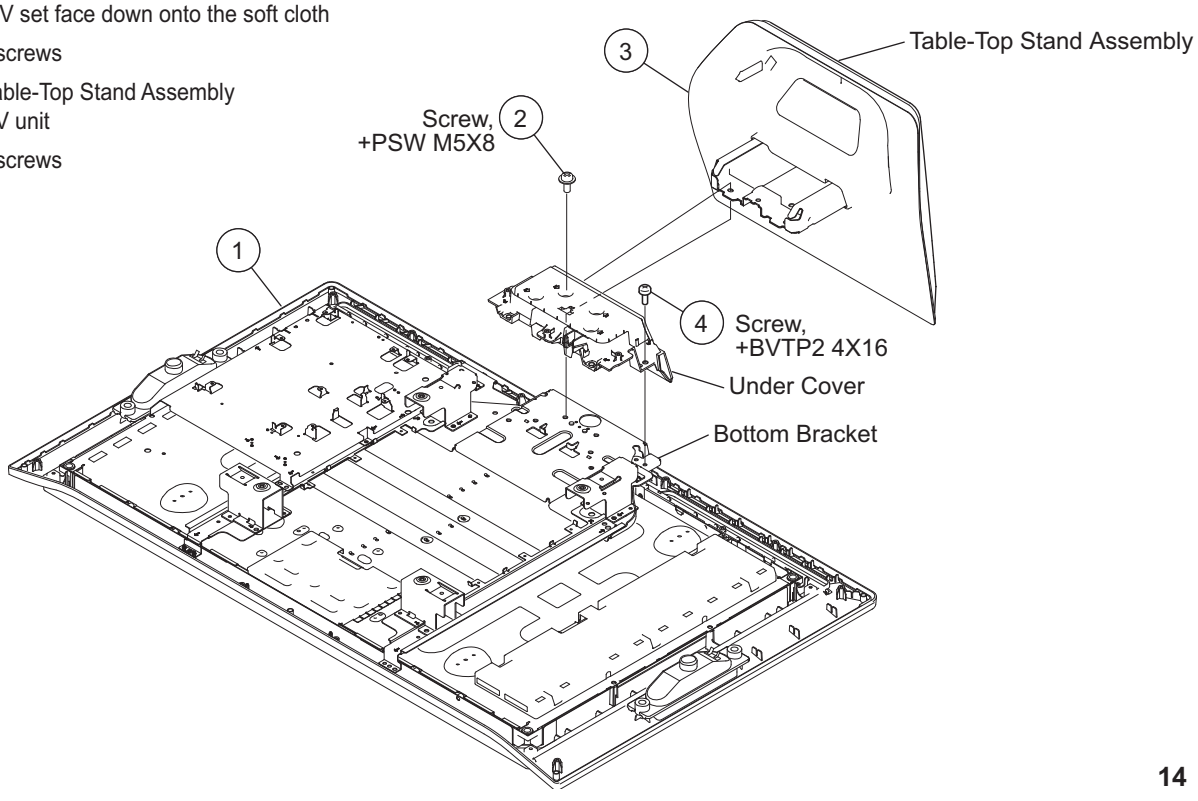
1-5. SIDE JACK BRACKET, BM4 BOARD AND KD BOARD REMOVAL

1. Release hook and slide out Side Jack Bracket from BM4 Board
2. Remove 2 screws
3. Remove 2 screws
4. Remove 7 screws
5. Disconnect 7 connectors
6. Remove 2 screws
7. Disconnect 2 connectors



1-6. TABLE-TOP STAND ASSEMBLY AND UNDER COVER REMOVAL

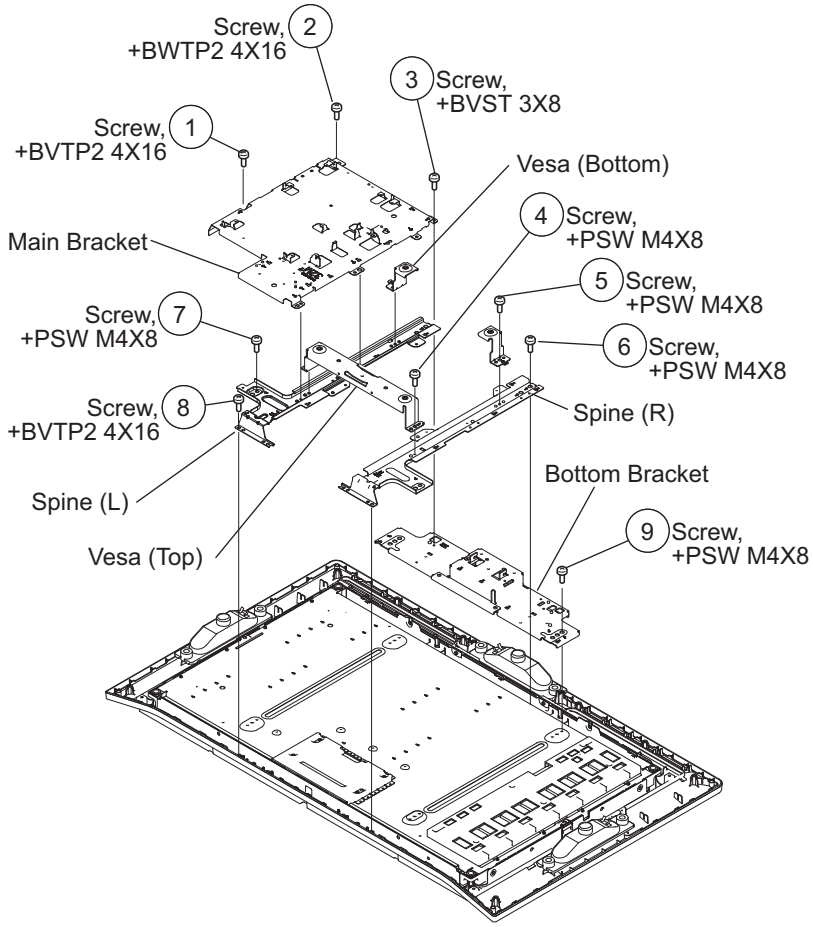
1. Place the TV set face down onto the soft cloth
2. Remove 4 screws
3. Slide out Table-Top Stand Assembly from the TV unit
4. Remove 2 screws



1-7. STRUCTURAL FRAMES AND BRACKETS REMOVAL

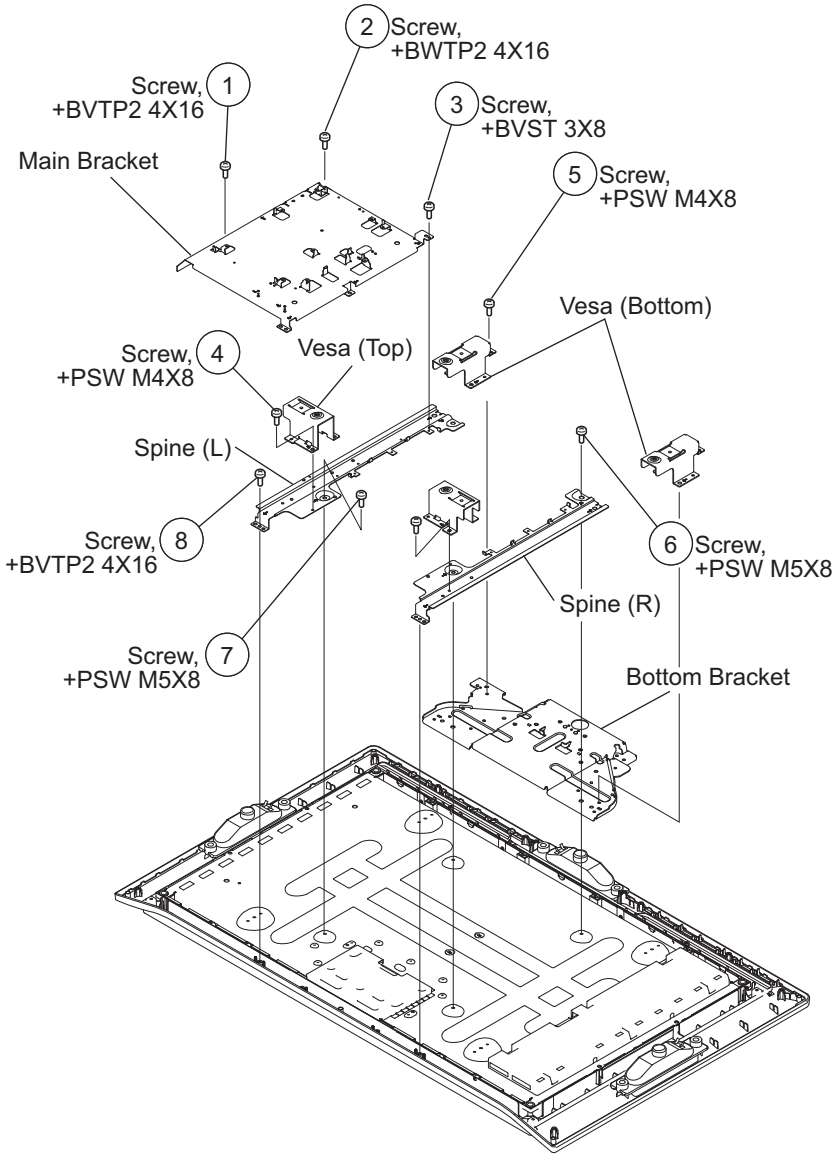
1-7-1. KDL-32FA500

1. Remove 2 screws from Main Bracket
2. Remove 1 screw from Main Bracket
3. Remove 4 screws from Main Bracket
4. Remove 2 screws from Vesa Top Bracket
5. Remove 2 screws from Vesa Bottom Bracket
6. Remove 3 screws from Spine (R)
7. Remove 2 screws from Spine (L)
8. Remove 2 screws from both Spine Frames
9. Remove 4 screws from Bottom Bracket



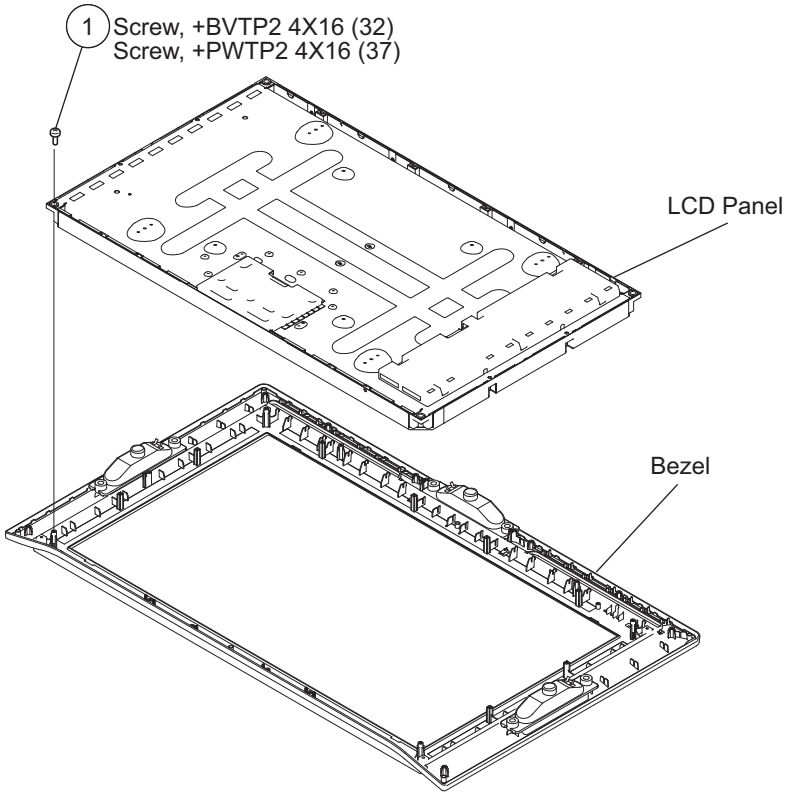
1-7-2. KDL-37FA500

1. Remove 2 screws from Main Bracket
2. Remove 1 screw from Main Bracket
3. Remove 3 screws from Main Bracket
4. Remove 4 screws from both Vesa Top Brackets
5. Remove 6 screws from both Vesa Bottom Brackets
6. Remove 3 screws from Spine (R)
7. Remove 3 screws from Bottom Spine (L)
8. Remove 2 screws from both Spine Frames
9. Remove 4 screws from Bottom Bracket



1-8. LCD PANEL REMOVAL

1. Remove 3 screws
2. Disconnect 1 connector



1-8-1. CLEANING THE LCD PANEL

CAUTION: When cleaning the TV, be sure to unplug the power cord to avoid any chance of electric shock.

Clean the cabinet of the TV with a dry soft cloth.

Wipe the LCD screen gently with a soft cloth.

→ Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.

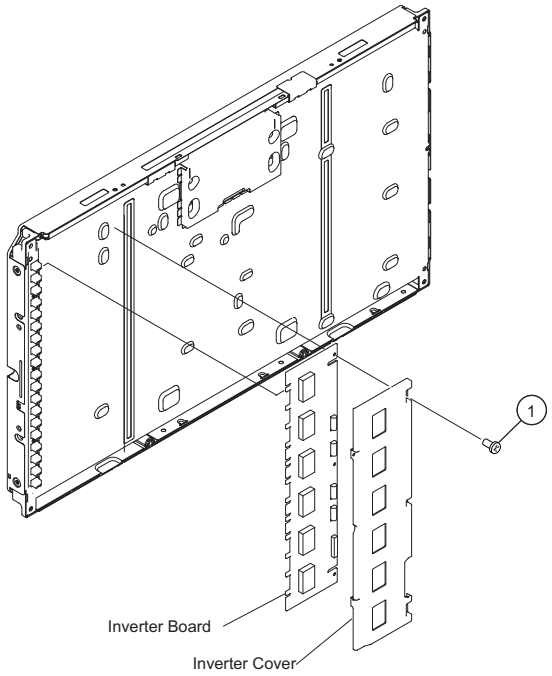
→ If using a chemically pretreated cloth, please follow the instruction provided on the package.

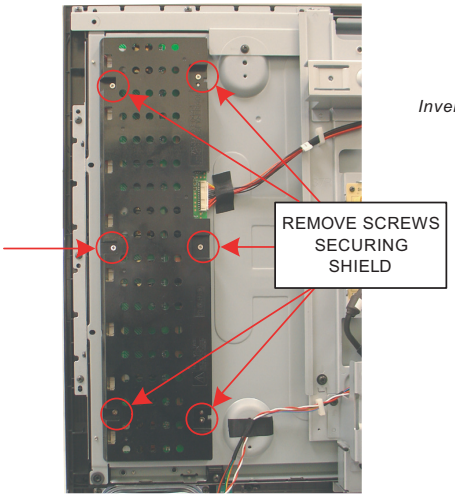
→ Never use strong solvents such as a thinner, alcohol or benzine for cleaning.

→ Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.

1-9. INVERTER BOARD REMOVAL

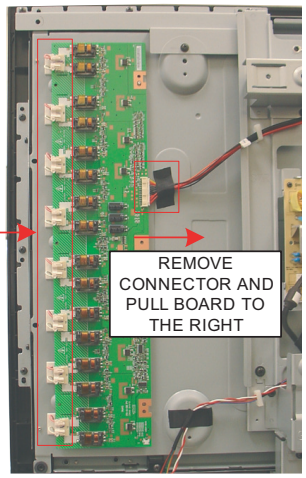
① Remove 6 screws
② Disconnect 7 connectors (KDL-32FA500 Only)
Disconnect 8 connectors (KDL-37FA500 Only)





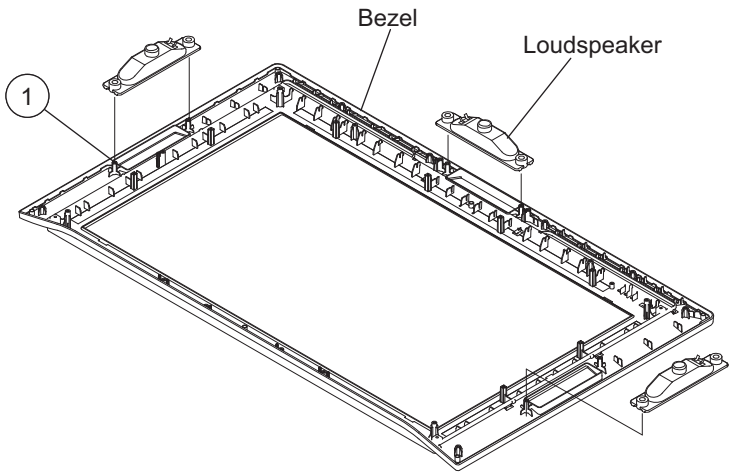
SHIELD REMOVAL

CAUTION!
Disconnect the Inverter Board Connectors



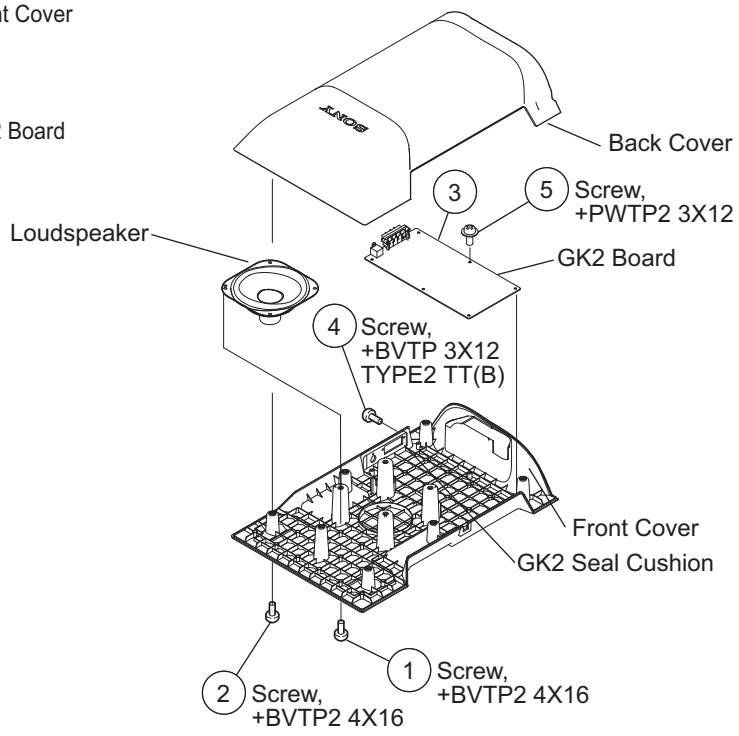
1-10. LOUDSPEAKERS REMOVAL

① Slide out three Loudspeakers from Bezel



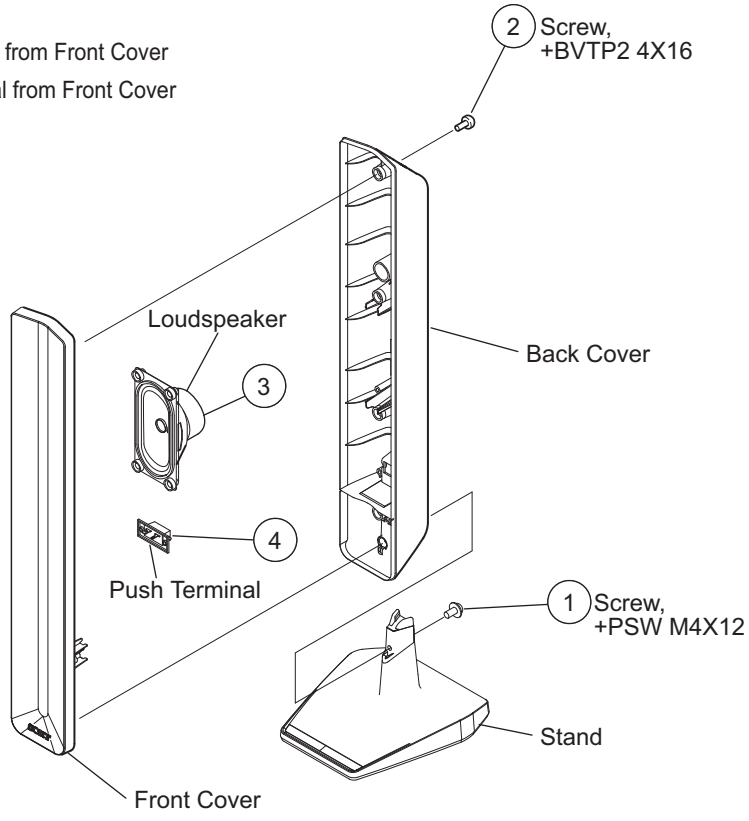
1-11. SUBWOOFER AND GK2 BOARD REMOVAL

1. Remove 4 screws from Loudspeaker
2. Remove 7 screws from Front Cover
3. Disconnect two connectors
4. Remove 3 screws
5. Remove 6 screws from GK2 Board



1-12. SATELLITE SPEAKER DISASSEMBLY

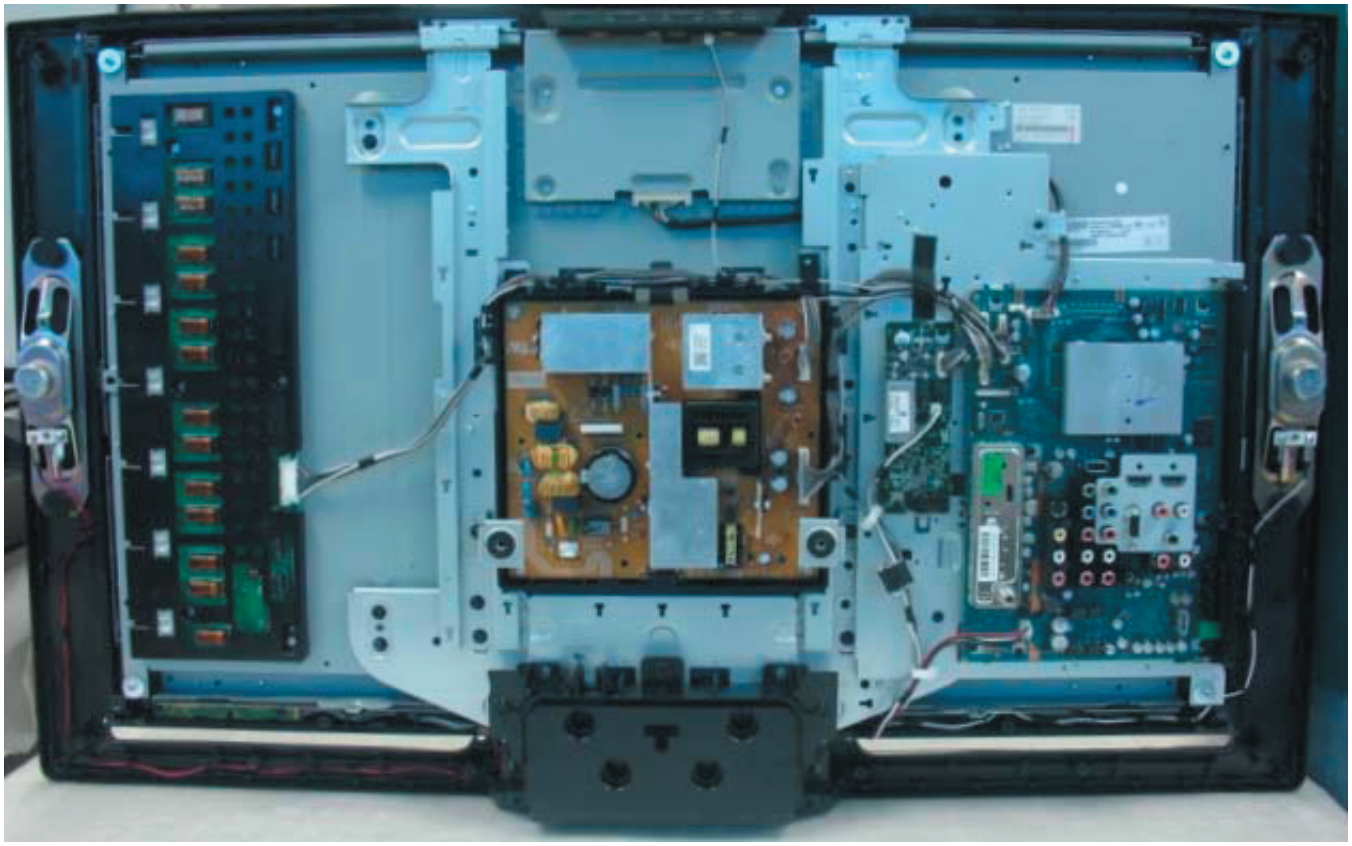
1. Remove1 screw
2. Remove 4 screws
3. Slide out Loudspeaker from Front Cover
4. Remove Push Terminal from Front Cover



WIRE DRESSING

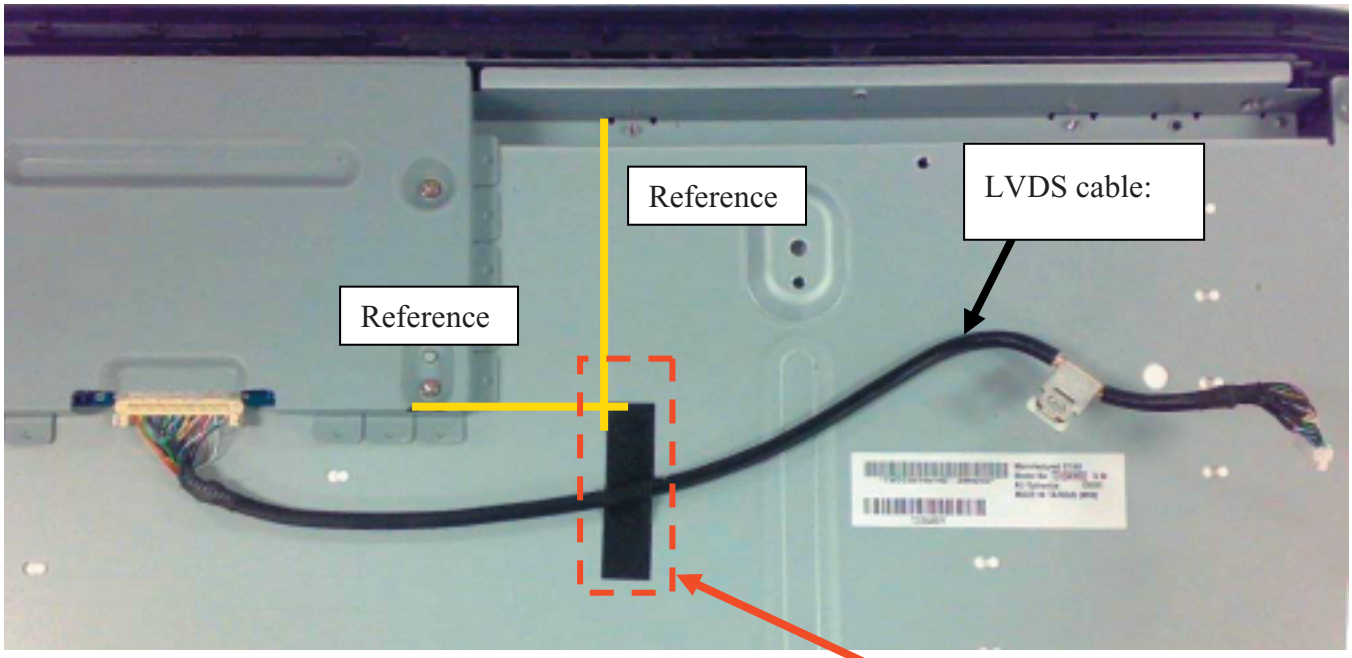
KDL-32FA500 ONLY

OVERALL VIEW

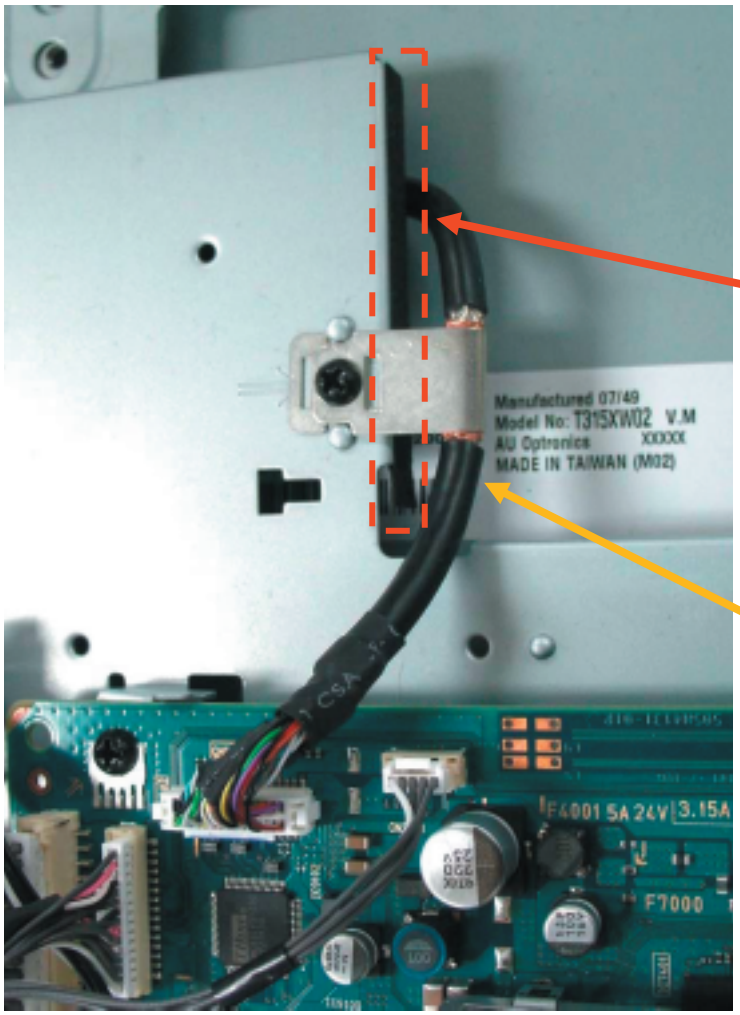


KDL-32FA500 ONLY

LVDS CONNECTOR



Fix LVDS cable to Panel using:
Tape 25mmx60mm

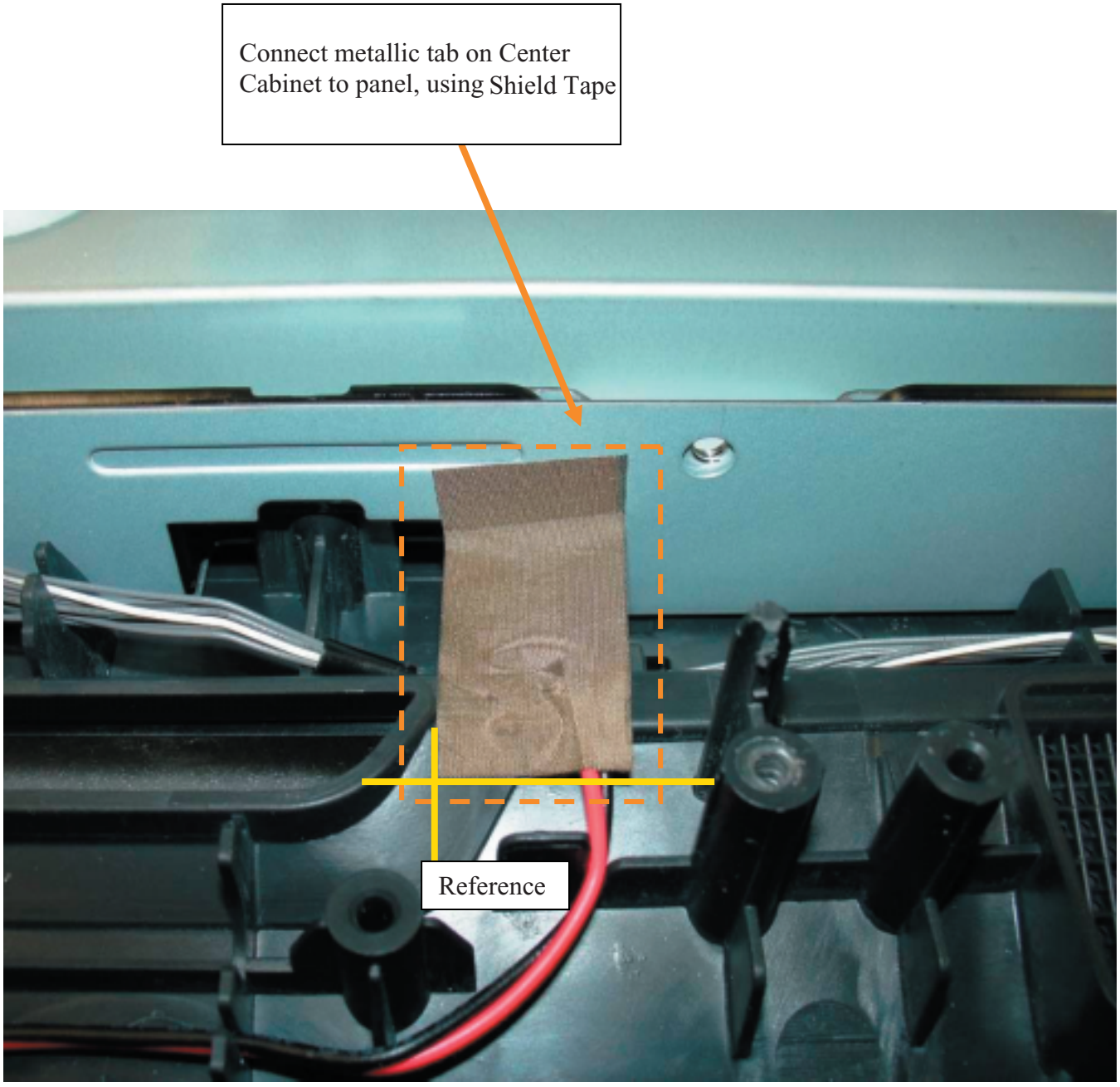


Cover Sharp Edge on Main Bracket using:
Tape 25mmx60mm

Dress LVDS cable to have this route.

KDL-32FA500 ONLY

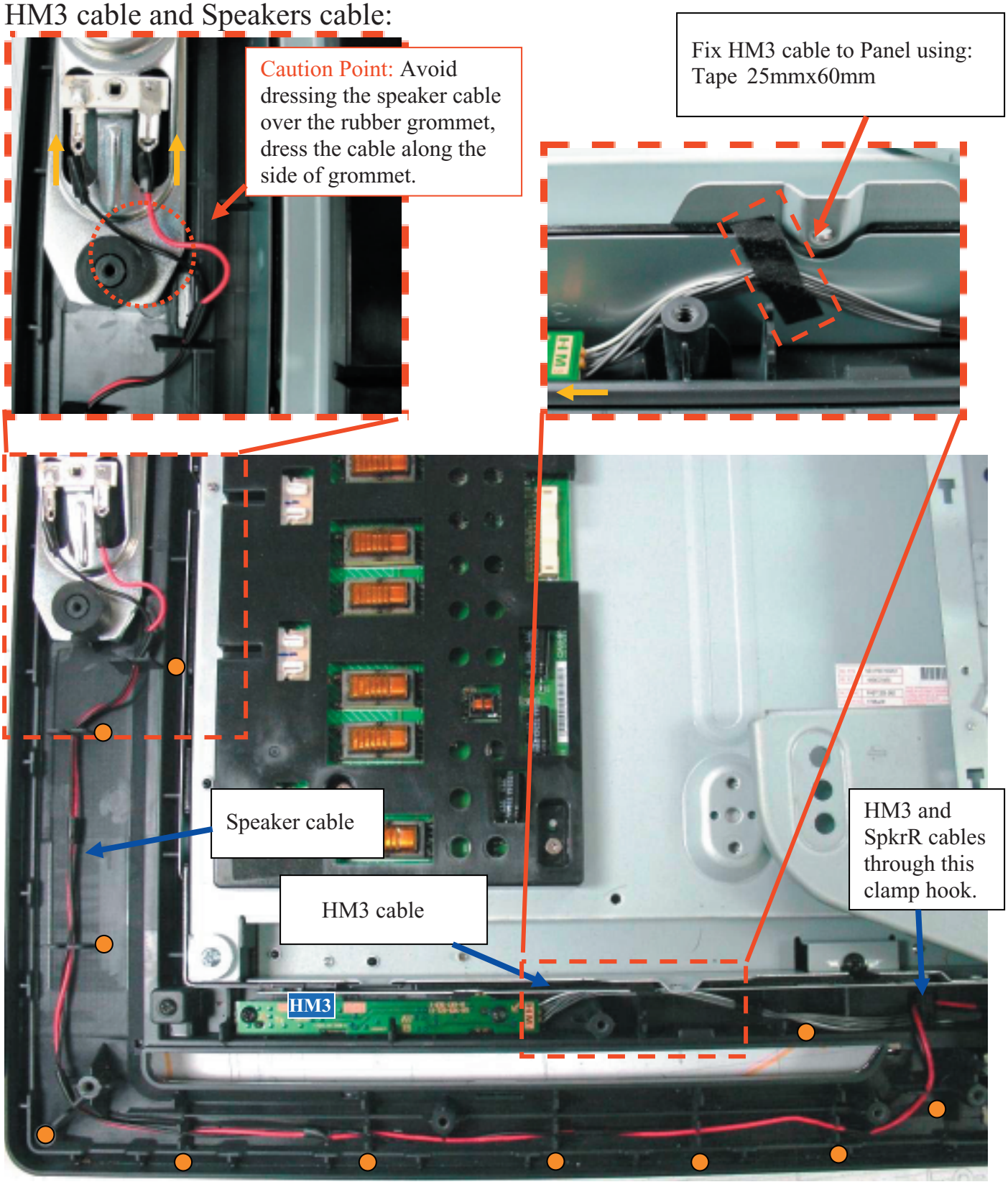
ESD COUNTERMEASURE



KDL-32FA500 ONLY

HM3 BOARD AND SPEAKER CONNECTORS

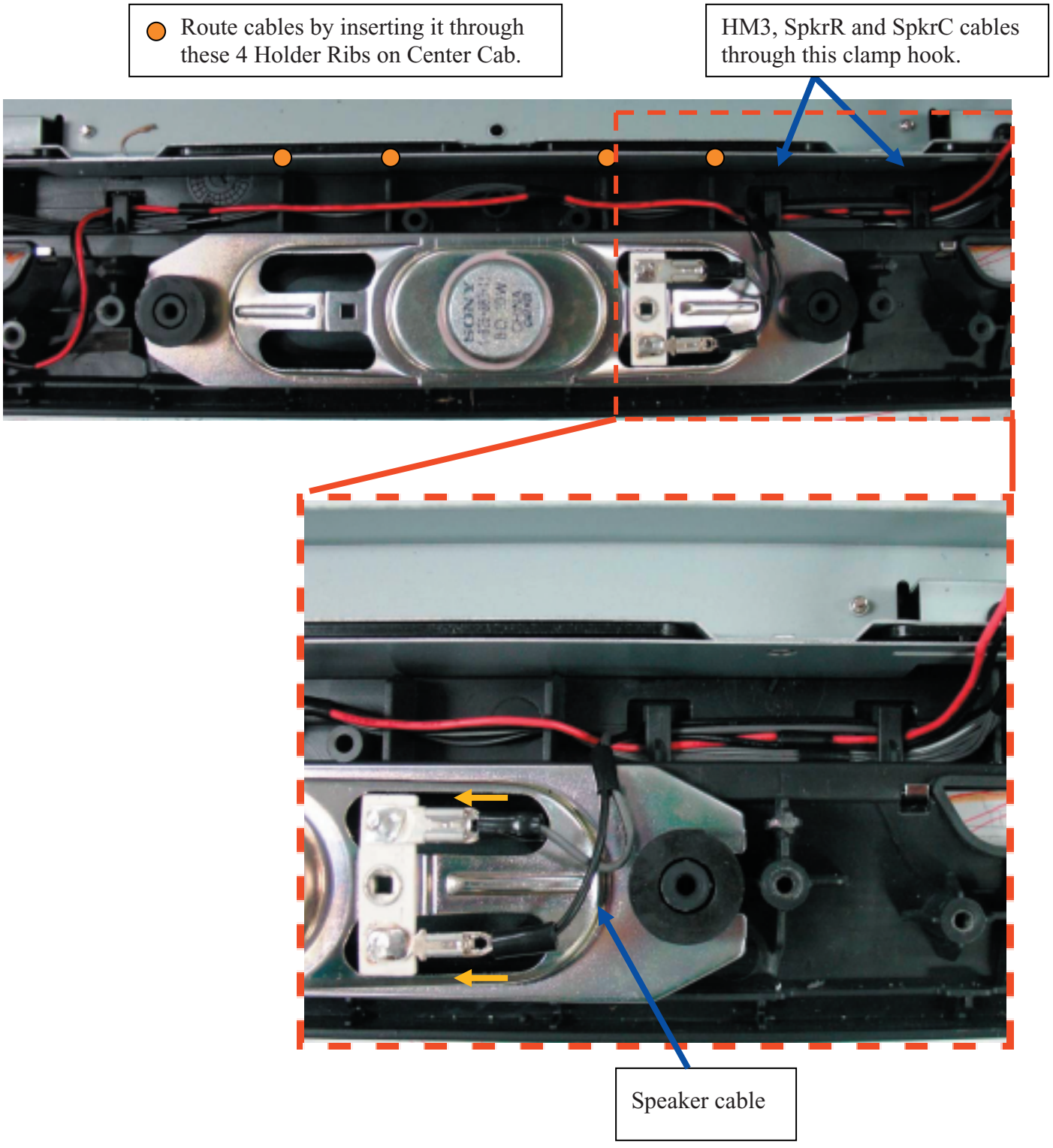
HM3 cable and Speakers cable:


Caution Point: Avoid dressing the speaker cable over the rubber grommet, dress the cable along the side of grommet.
Fix HM3 cable to Panel using: Tape 25mmx60mm
Speaker cable
HM3 cable
HM3
HM3 and SpkrR cables through this clamp hook.

Route cables by inserting it through these 11 Holder Ribs on Center Cab.

KDL-32FA500 ONLY

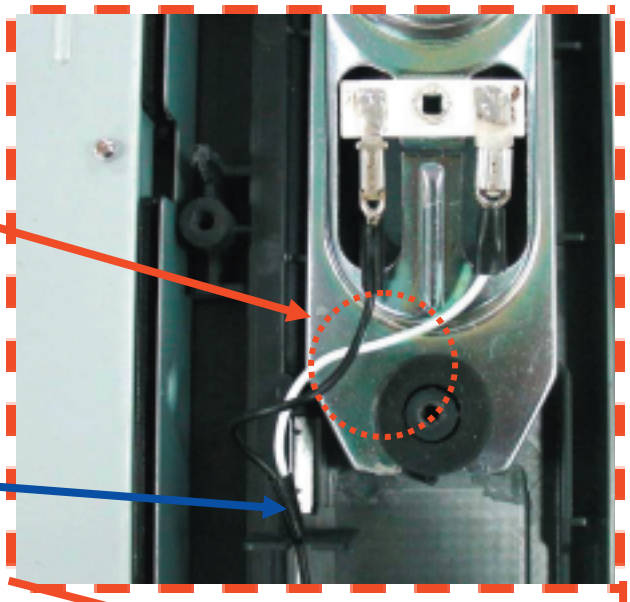
SPEAKER CONNECTORS


Route cables by inserting it through these 4 Holder Ribs on Center Cab.
HM3, SpkrR and SpkrC cables through this clamp hook.
Speaker cable

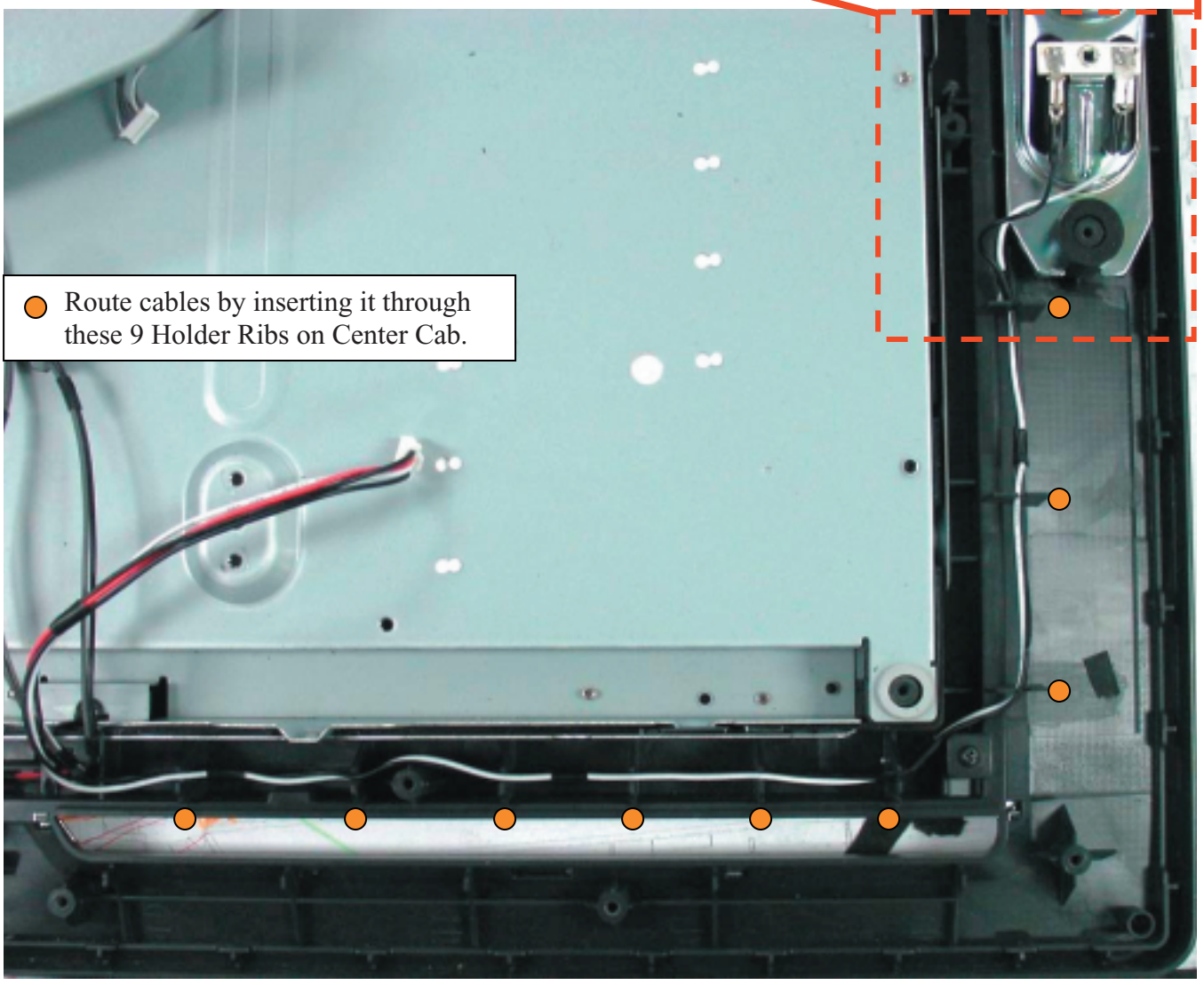
KDL-32FA500 ONLY

SPEAKER CONNECTORS (CONTINUED)

Caution Point: Avoid dressing the speaker cable over the rubber grommet, dress the cable along the side of grommet.



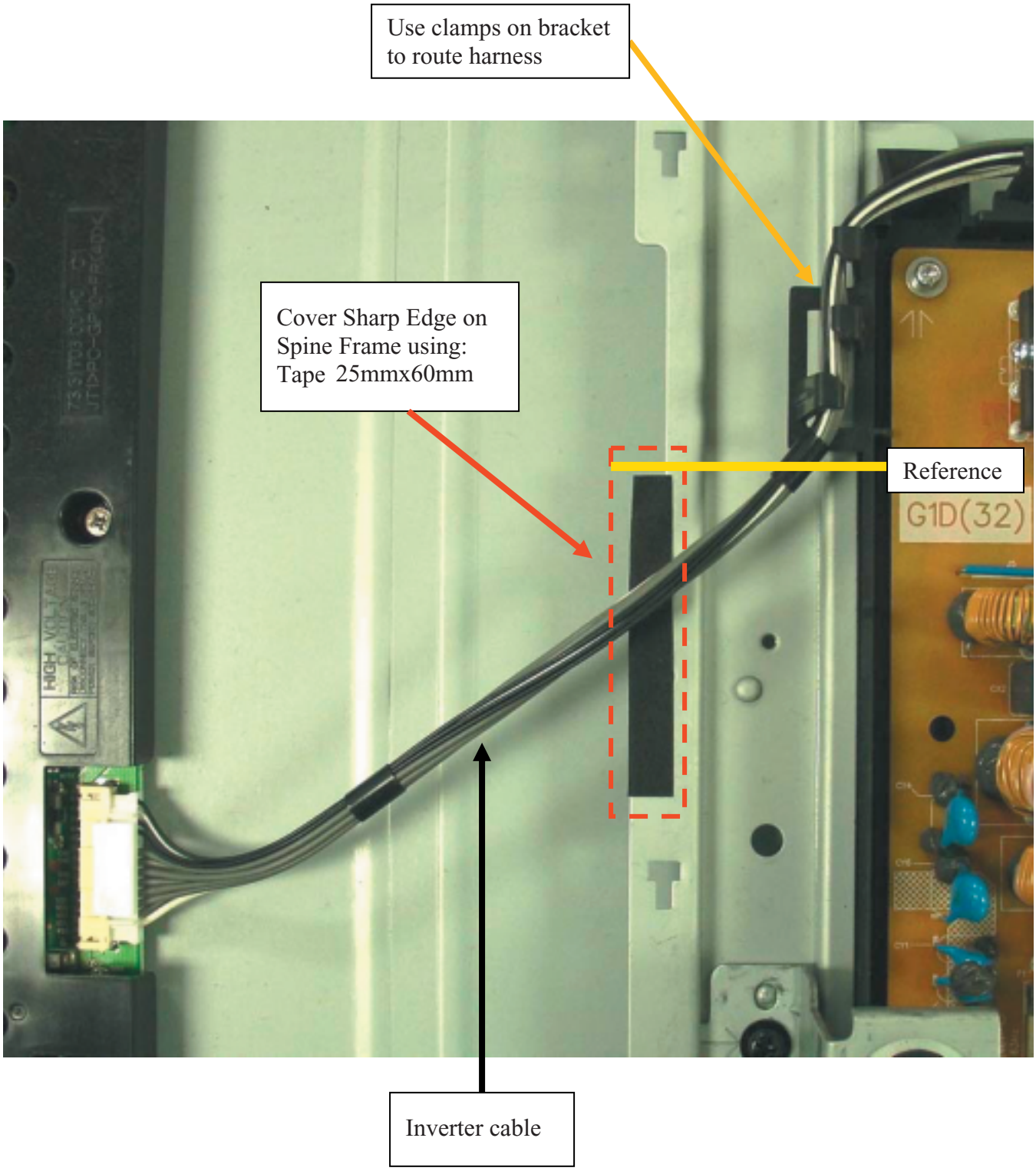
Speaker cable



Route cables by inserting it through these 9 Holder Ribs on Center Cab.

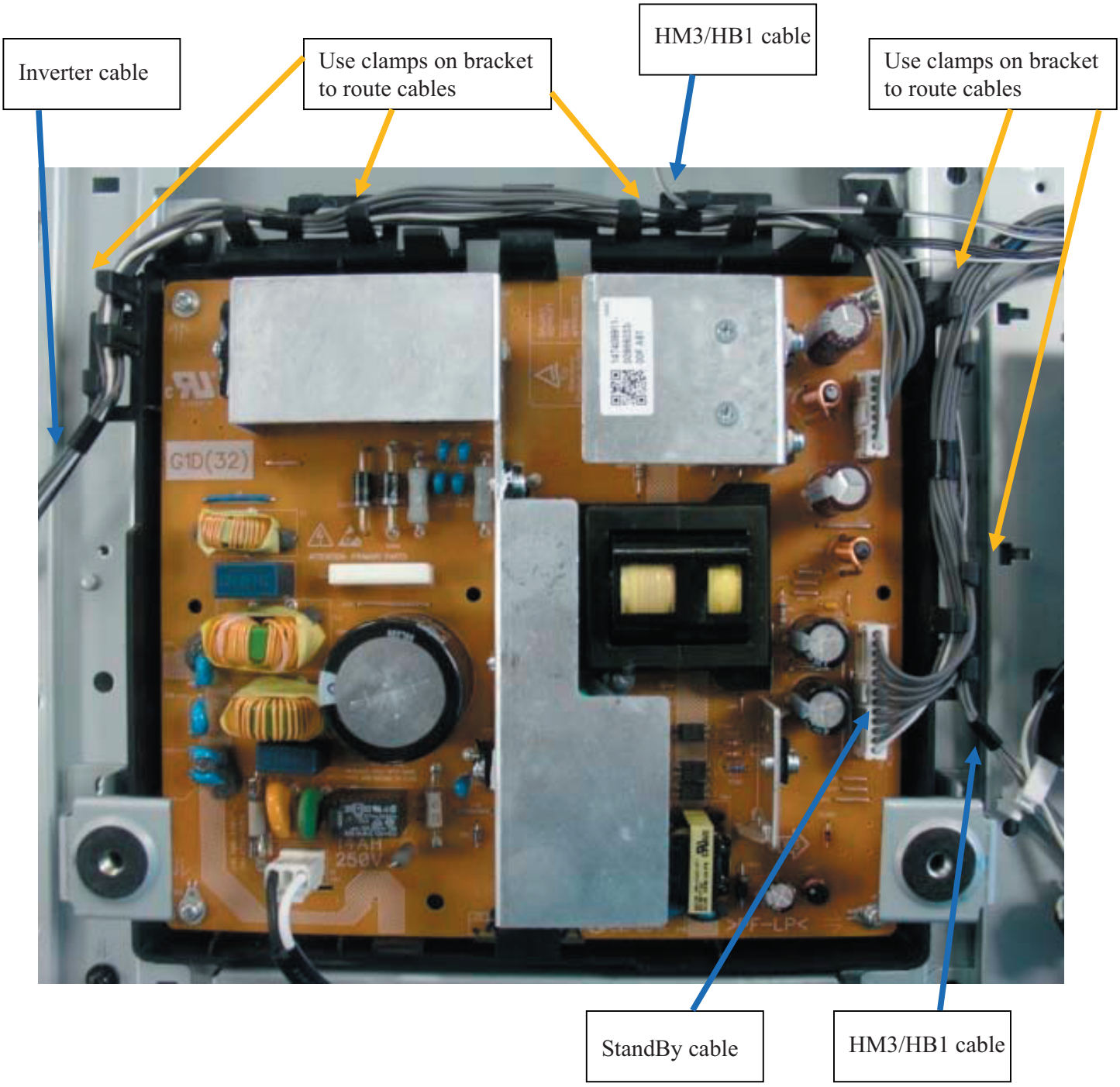
KDL-32FA500 ONLY

INVERTER BOARD CONNECTOR


Use clamps on bracket to route harness
Cover Sharp Edge on Spine Frame using: Tape 25mmx60mm
Reference
G1D(32)
Inverter cable

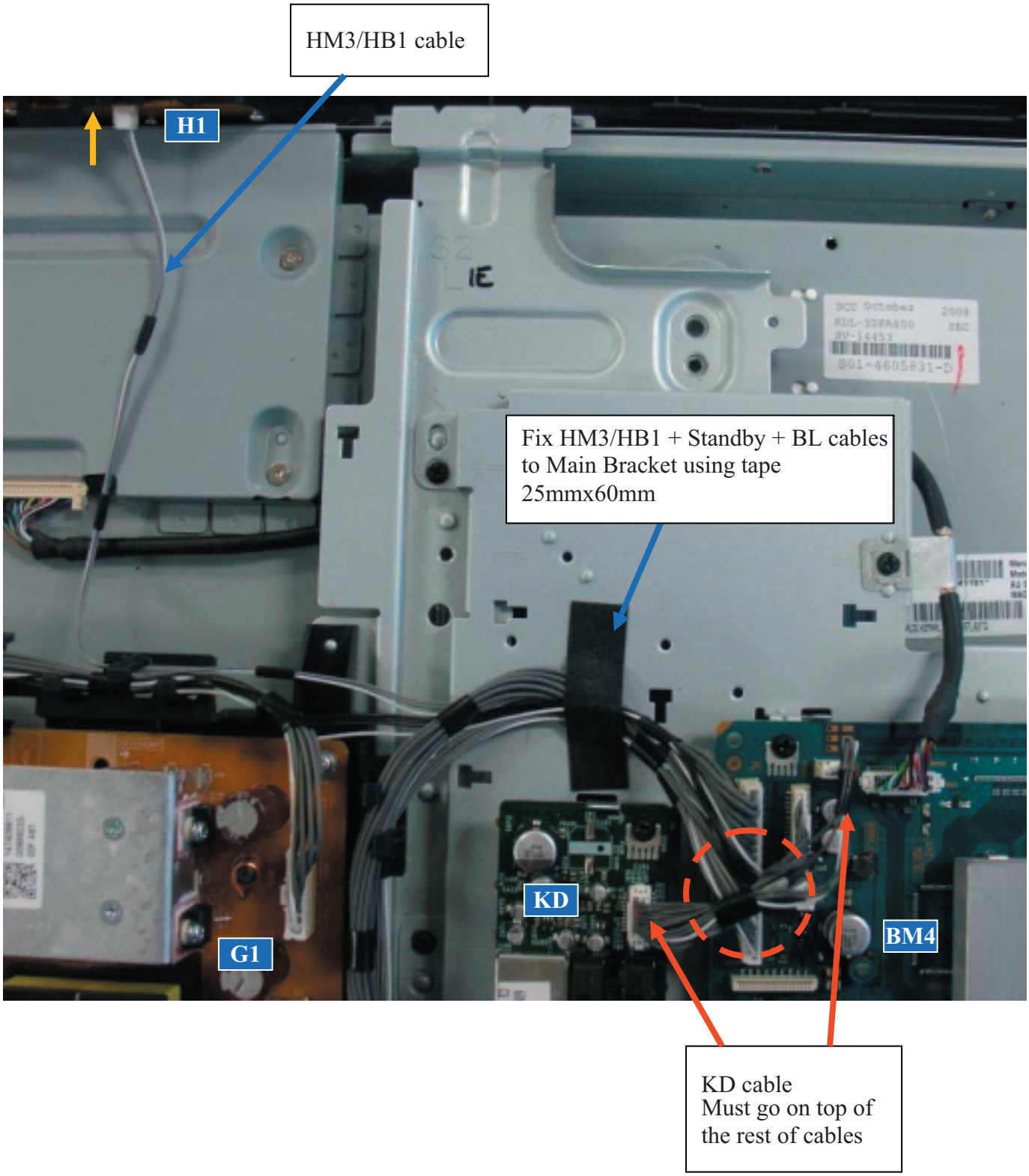
KDL-32FA500 ONLY

G1D BOARD (POWER UNIT)



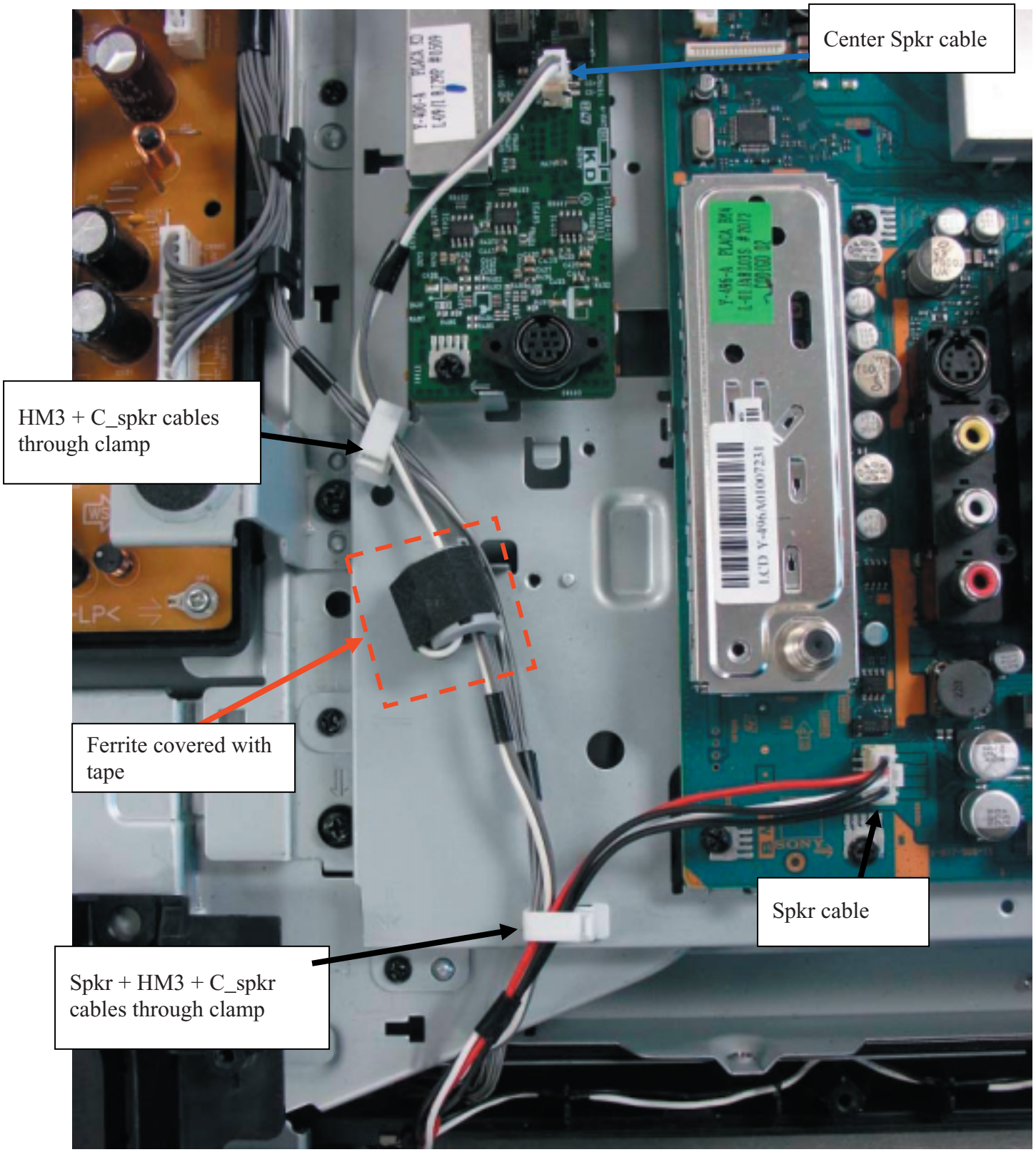
KDL-32FA500 ONLY

SWITCH UNIT (HB1 BOARD) AND KD BOARD



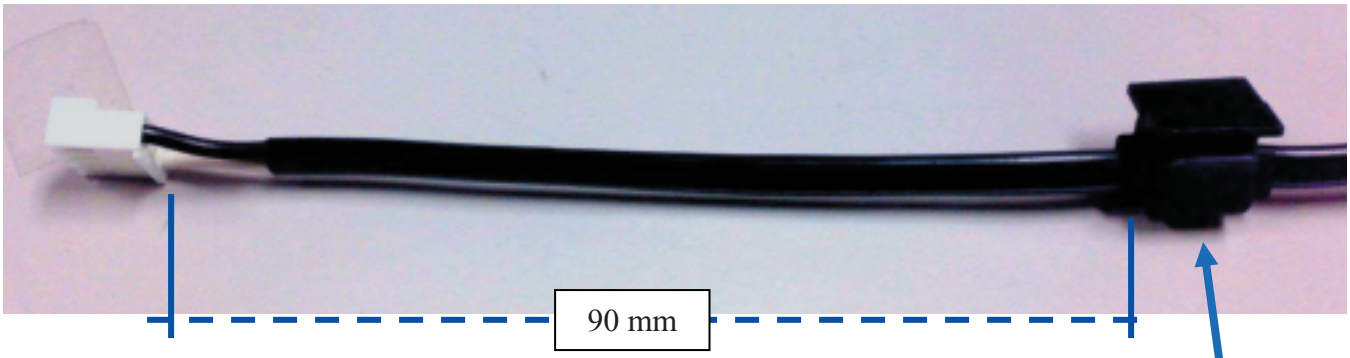
KDL-32FA500 ONLY

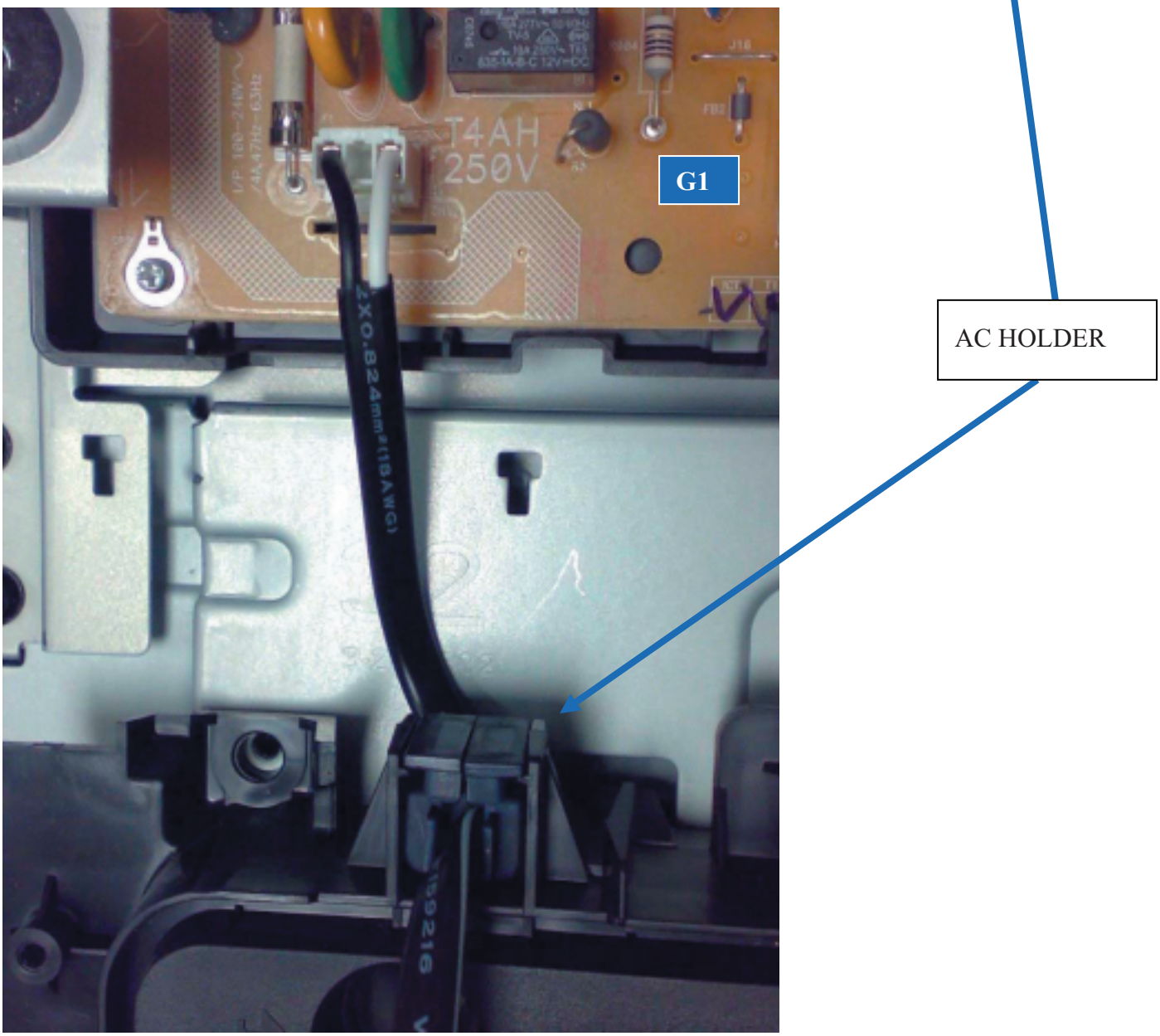
RF AND CENTER SPEAKER CABLE


Center Spkr cable
HM3 + C_spkr cables through clamp
Ferrite covered with tape
Spkr cable
Spkr + HM3 + C_spkr cables through clamp

KDL-32FA500 ONLY

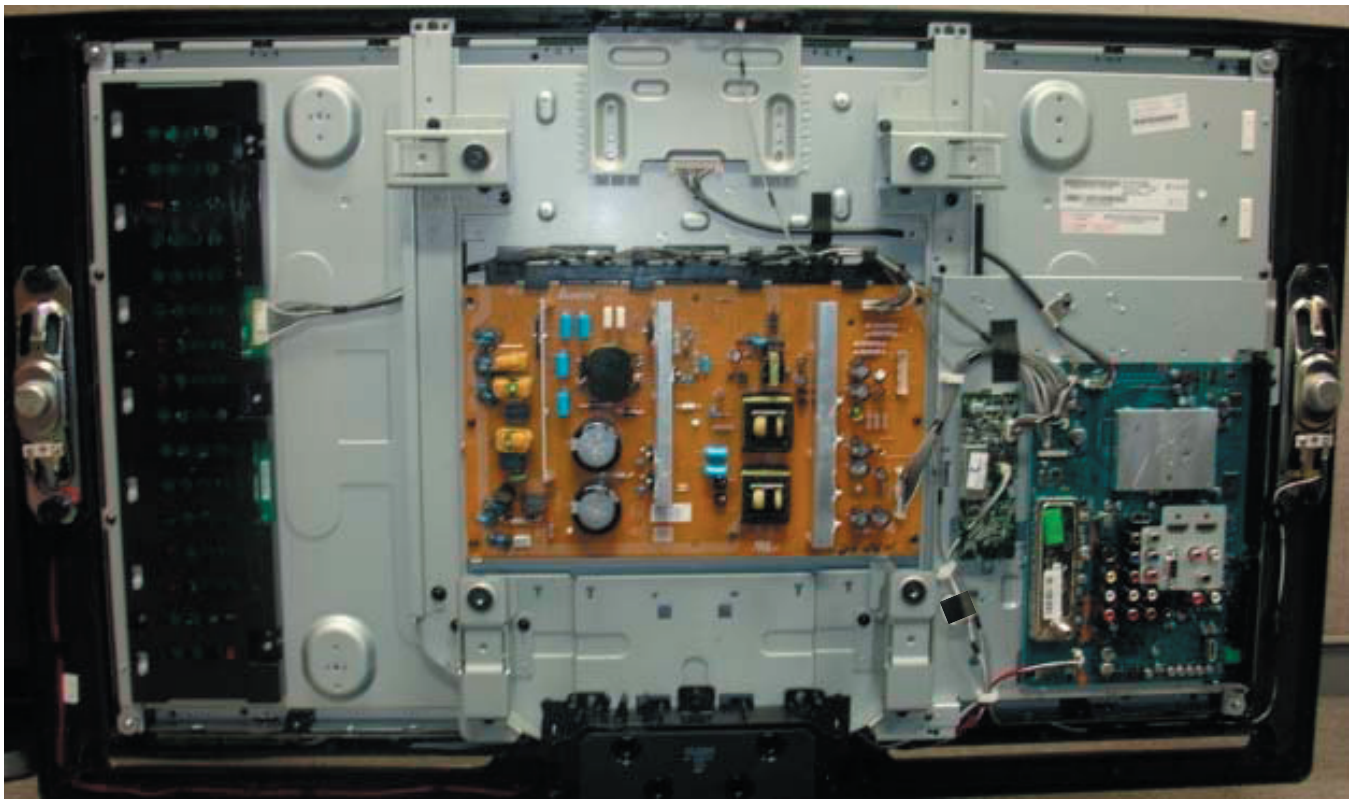
AC POWER CORD





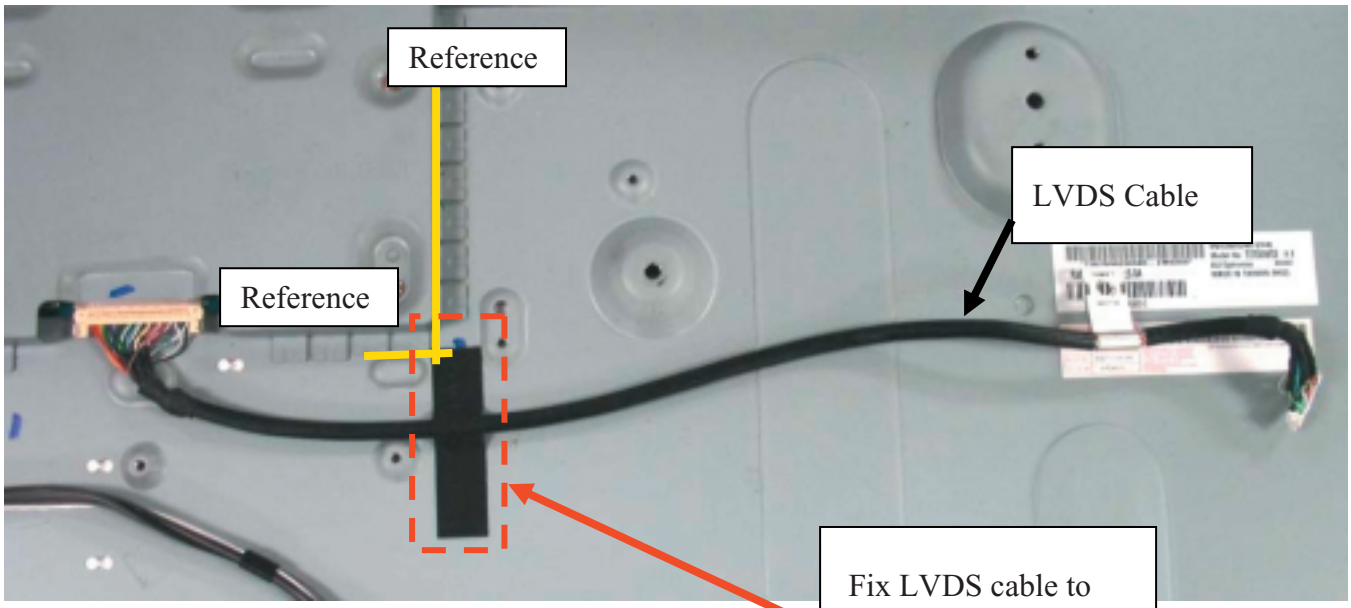
KDL-37FA500 ONLY

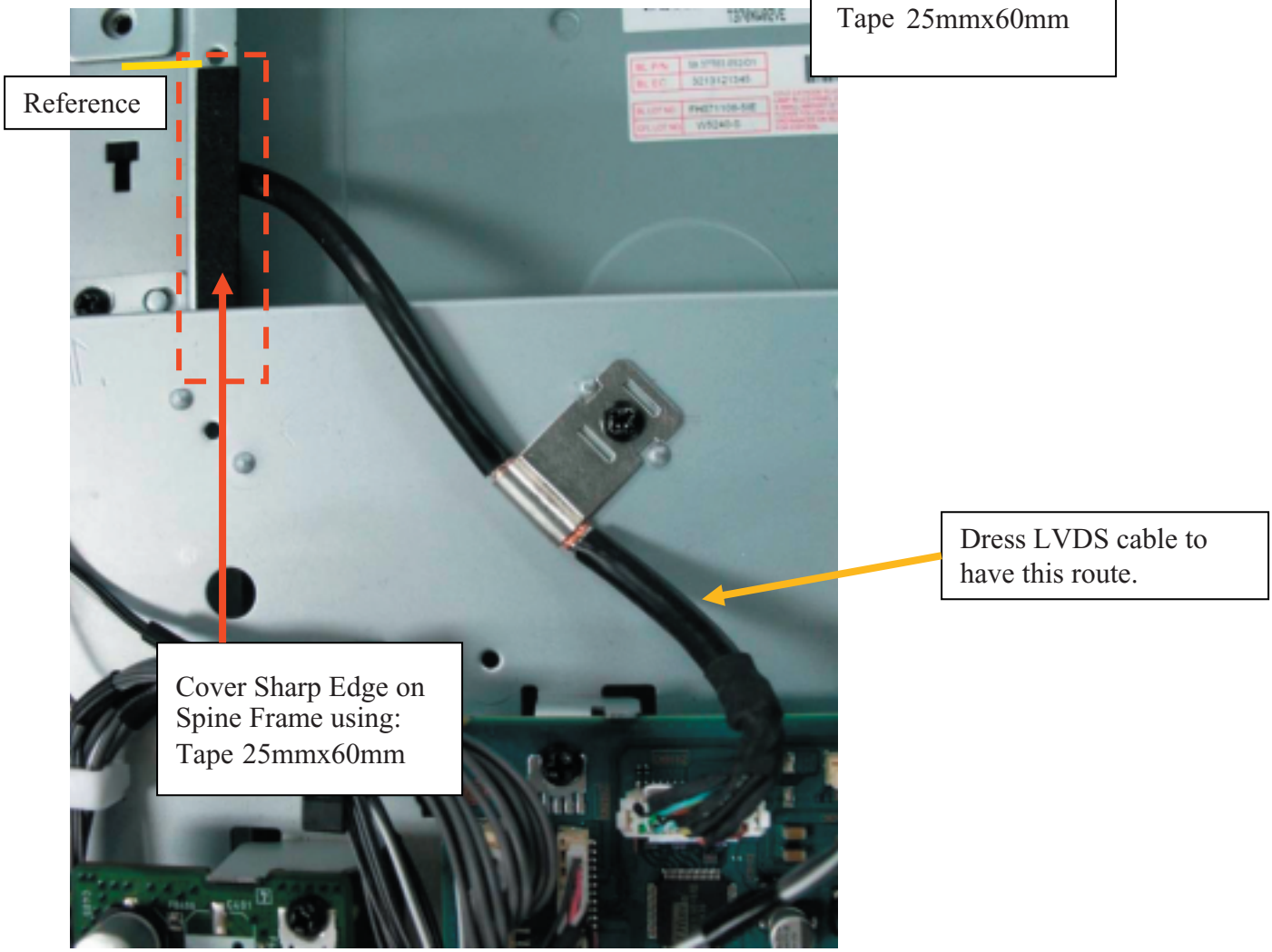
OVERALL VIEW



KDL-37FA500 ONLY

LVDS CONNECTOR

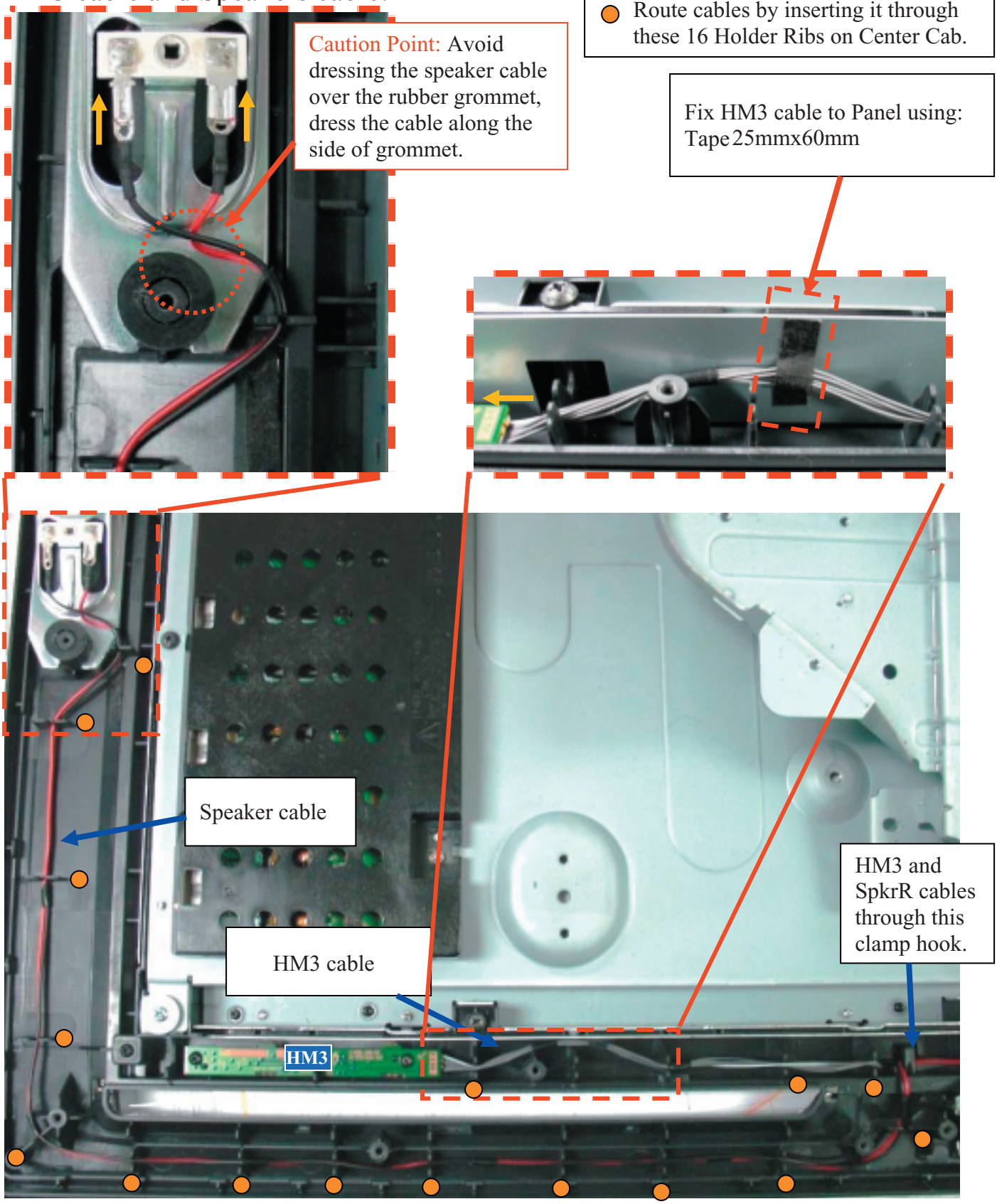




KDL-37FA500 ONLY

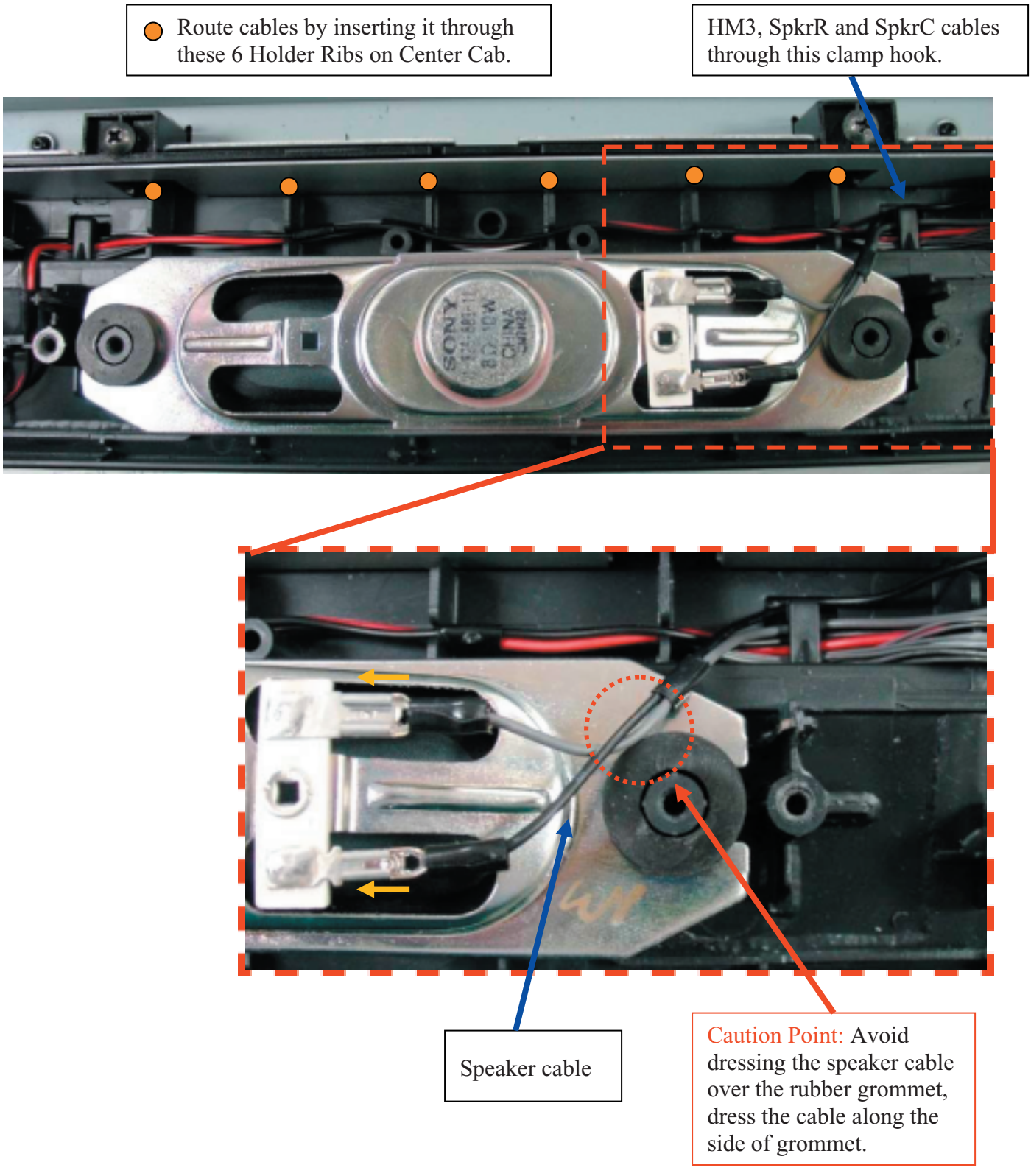
HM3 BOARD AND SPEAKER CONNECTORS

HM3 cable and Speakers cable:


Caution Point: Avoid dressing the speaker cable over the rubber grommet, dress the cable along the side of grommet.
Route cables by inserting it through these 16 Holder Ribs on Center Cab.
Fix HM3 cable to Panel using: Tape 25mmx60mm
Speaker cable
HM3 cable
HM3
HM3 and SpkrR cables through this clamp hook.

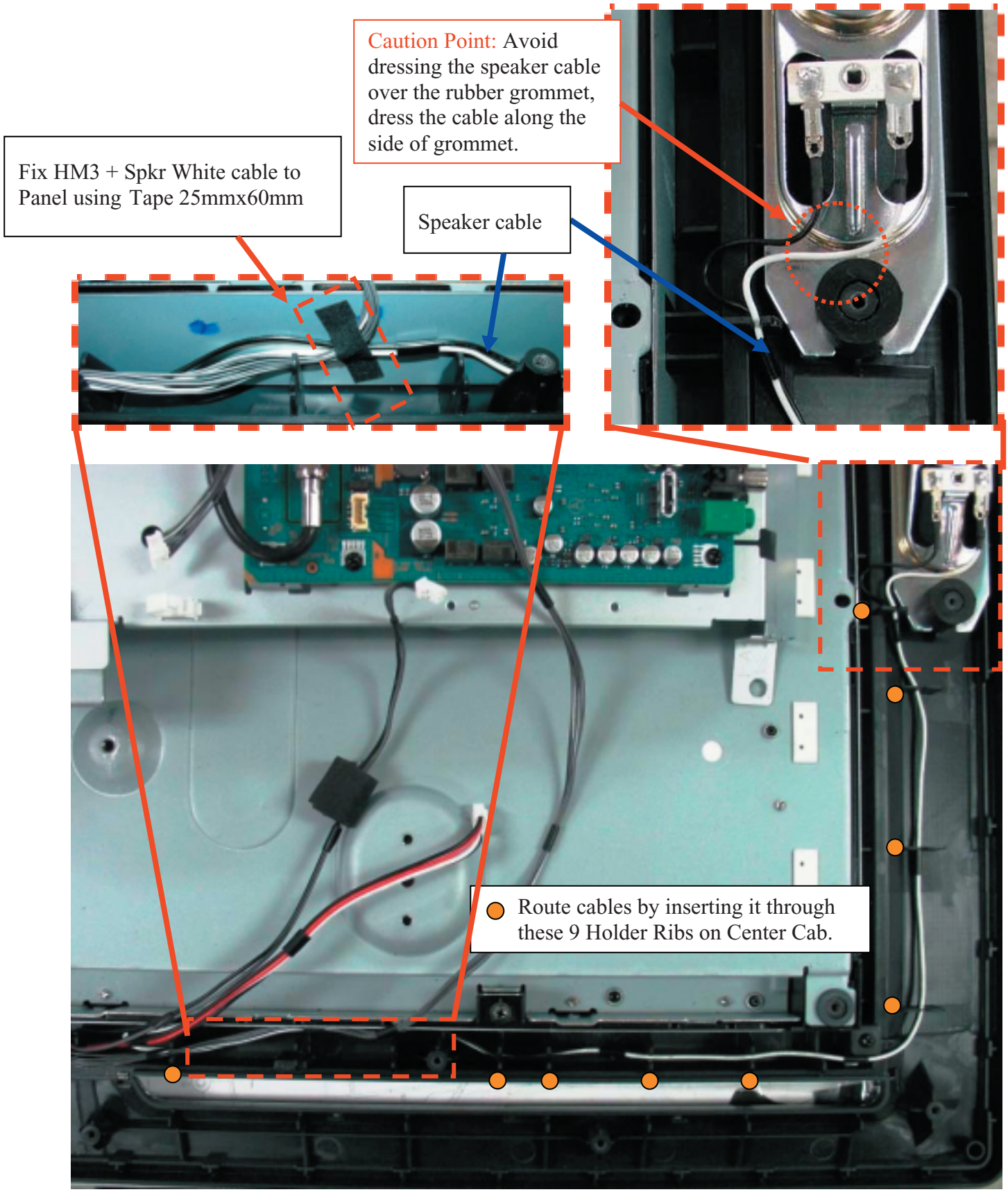
KDL-37FA500 ONLY

HM3 BOARD AND SPEAKER CONNECTORS (CONTINUED)


Route cables by inserting it through these 6 Holder Ribs on Center Cab.
HM3, SpkrR and SpkrC cables through this clamp hook.
Speaker cable
Caution Point: Avoid dressing the speaker cable over the rubber grommet, dress the cable along the side of grommet.

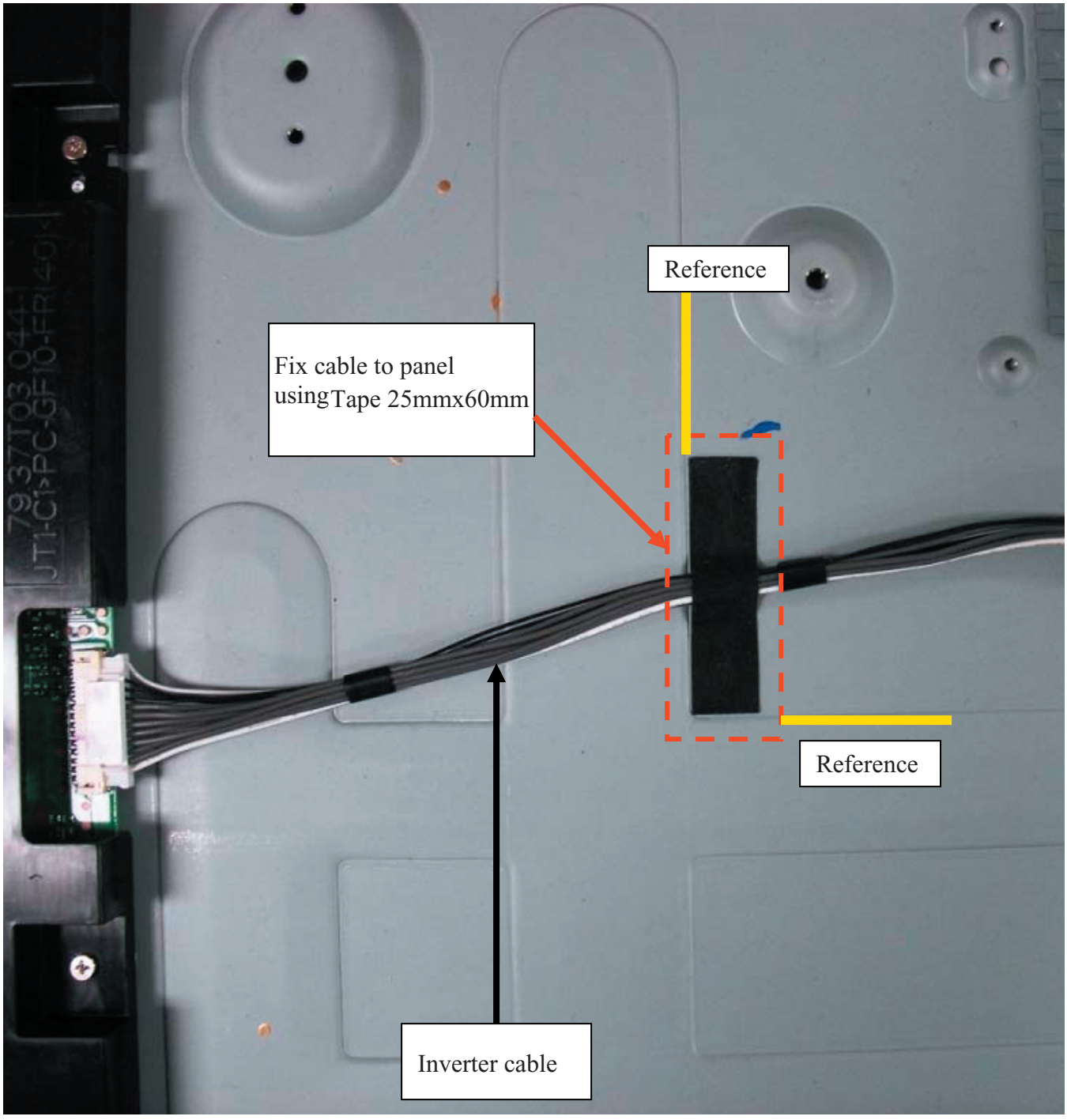
KDL-37FA500 ONLY

HM3 BOARD AND SPEAKER CONNECTORS (CONTINUED)


Caution Point: Avoid dressing the speaker cable over the rubber grommet, dress the cable along the side of grommet.
Fix HM3 + Spkr White cable to Panel using Tape 25mmx60mm
Speaker cable
Route cables by inserting it through these 9 Holder Ribs on Center Cab.

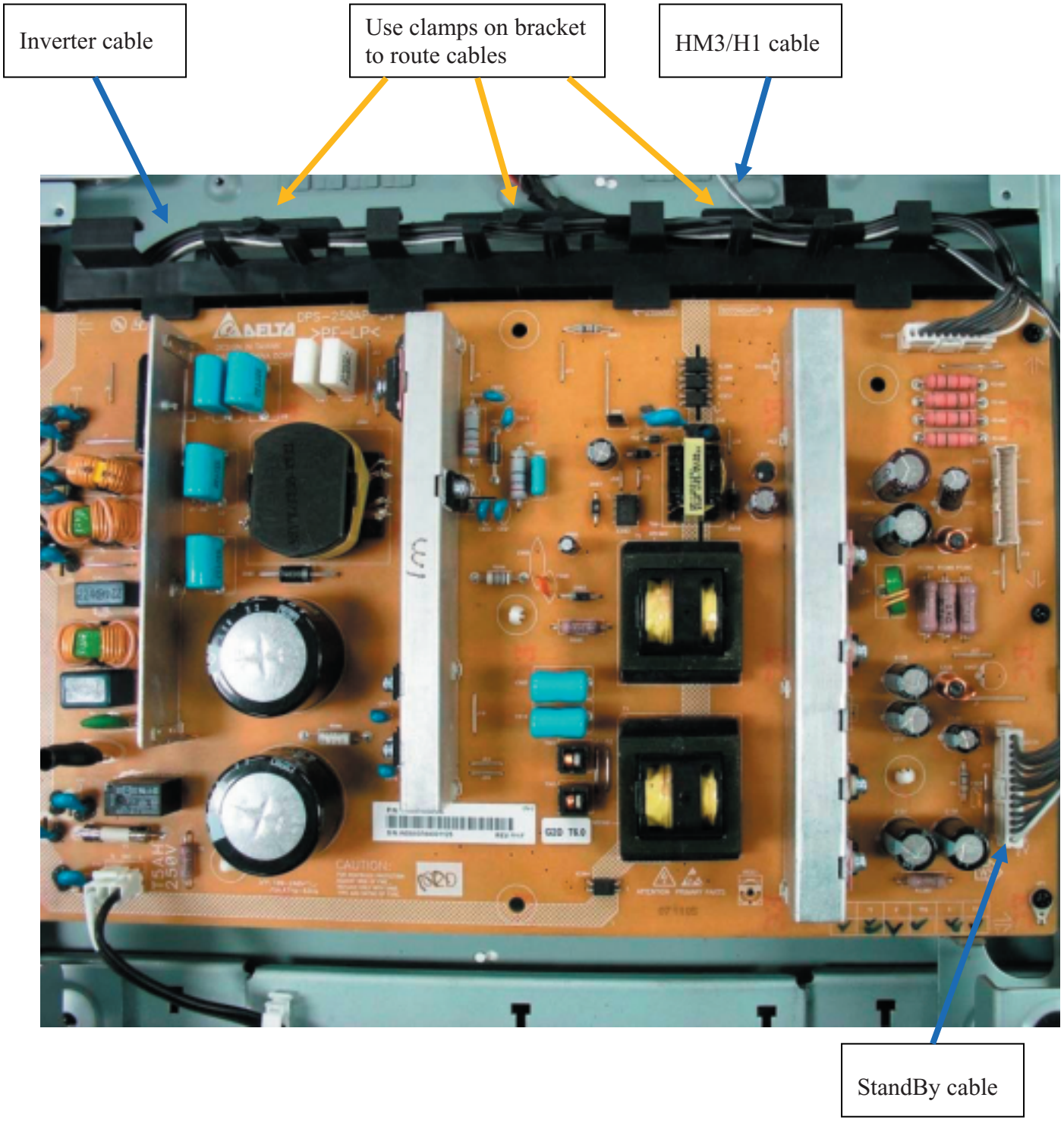
KDL-37FA500 ONLY

INVERTER BOARD CONNECTOR



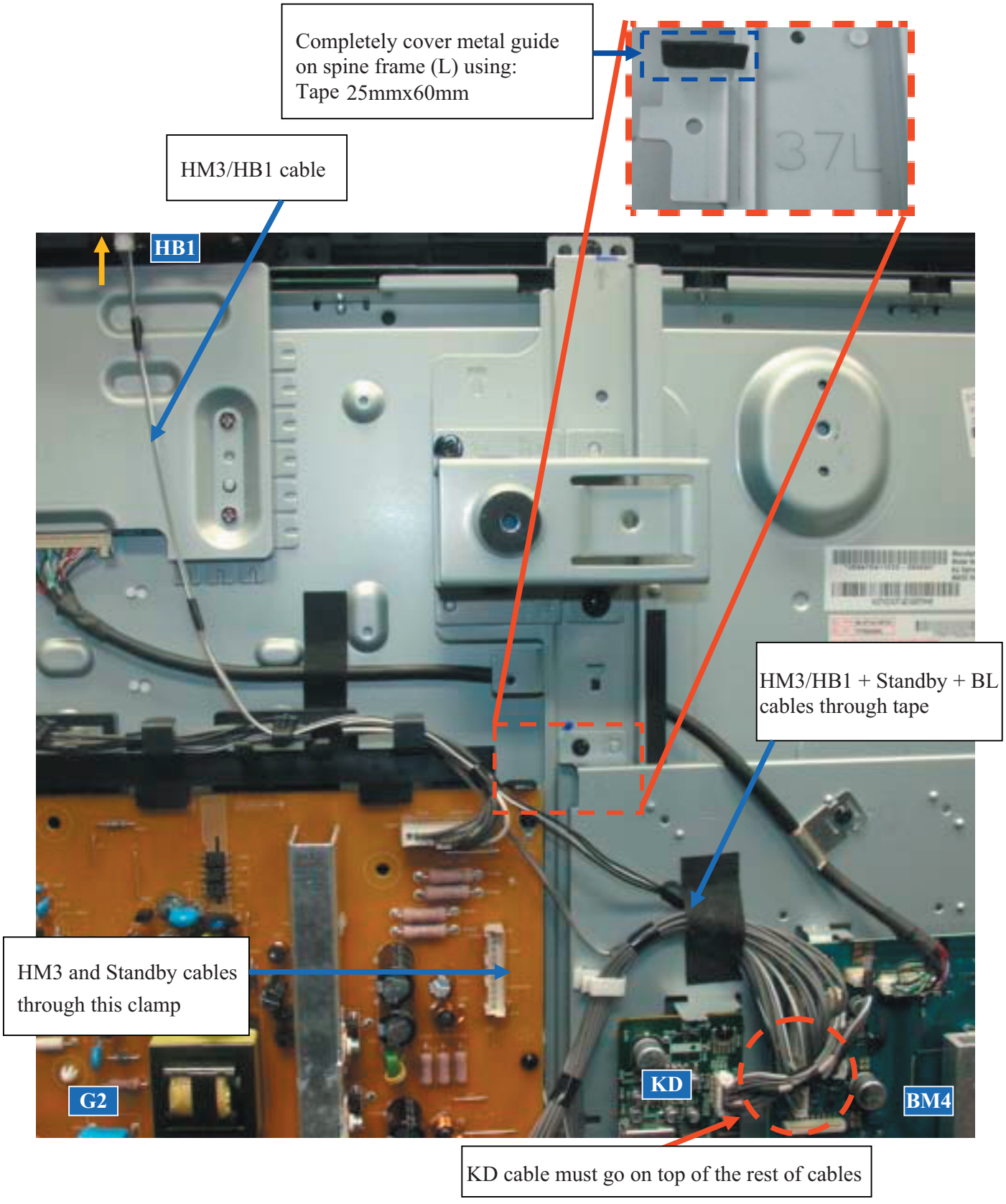
KDL-37FA500 ONLY

G2D BOARD (POWER UNIT) WIRE DRESSING



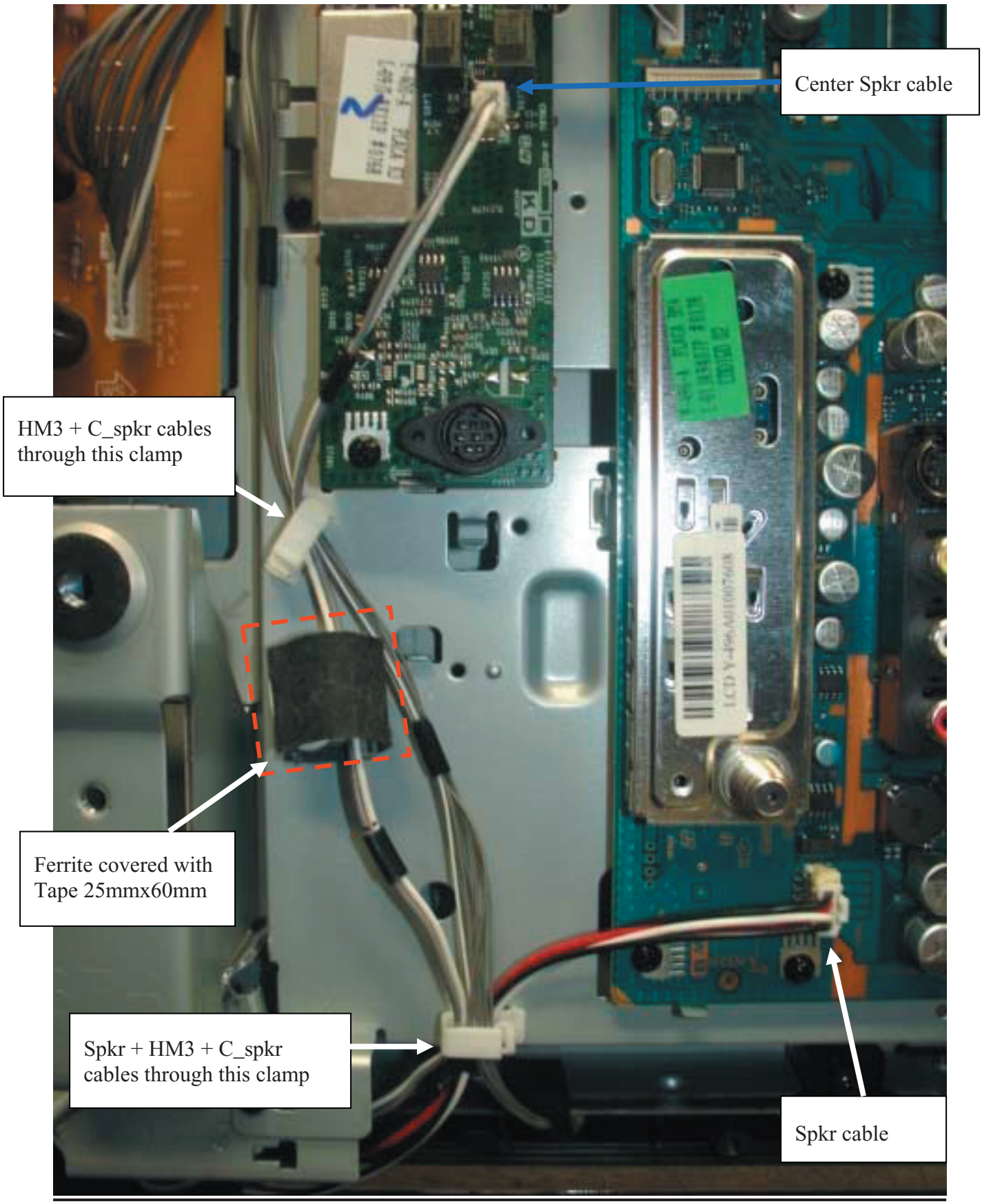
KDL-37FA500 ONLY

SWITCH UNIT (HB1 BOARD) AND KD BOARD WIRE DRESSING


Completely cover metal guide on spine frame (L) using: Tape 25mmx60mm
HM3/HB1 cable
HB1
HM3/HB1 + Standby + BL cables through tape
HM3 and Standby cables through this clamp
G2
KD
BM4
KD cable must go on top of the rest of cables

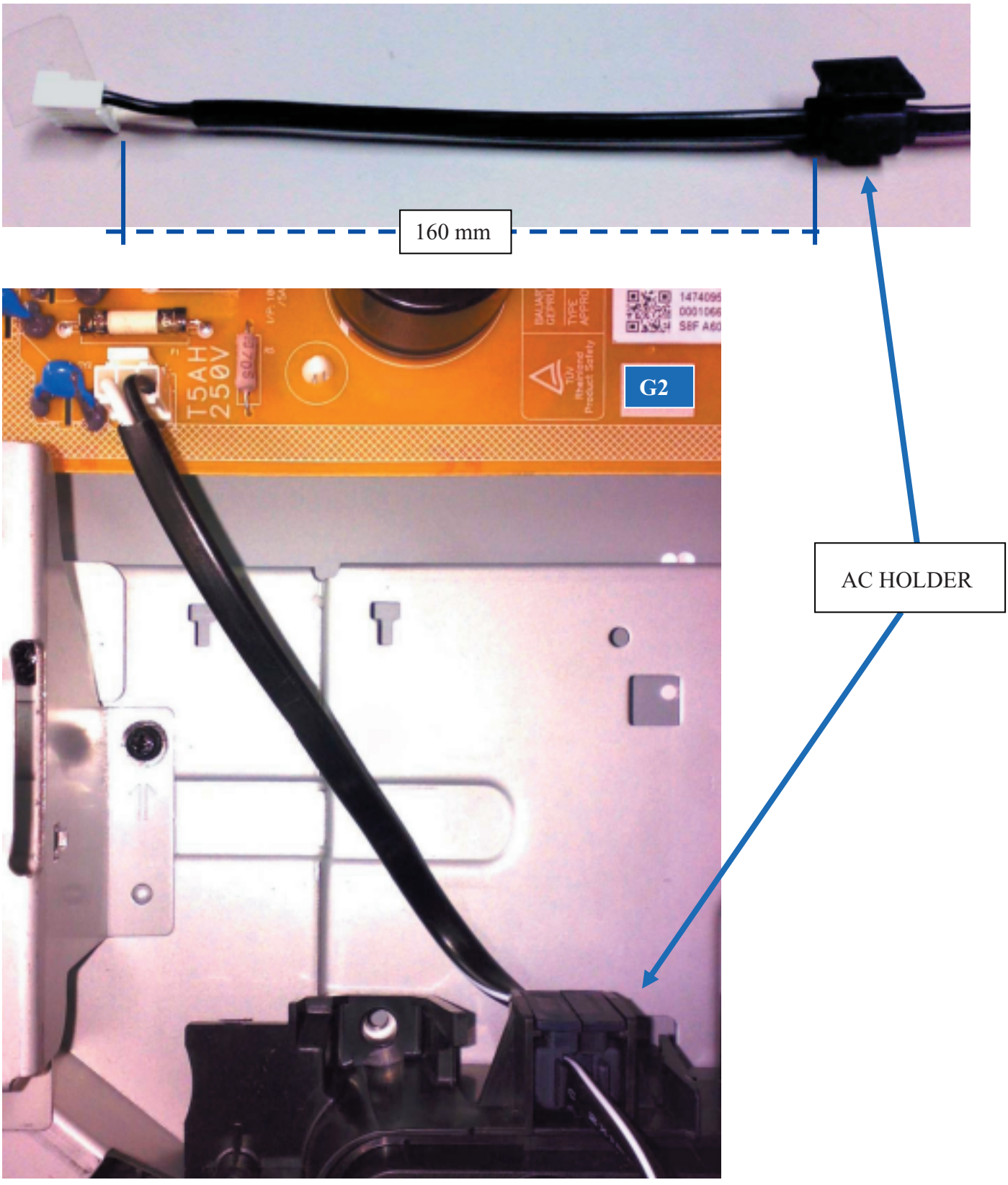
KDL-37FA500 ONLY

RF AND CENTER SPEAKER CABLE


Center Spkr cable
HM3 + C_spkr cables through this clamp
Ferrite covered with Tape 25mmx60mm
Spkr + HM3 + C_spkr cables through this clamp
Spkr cable

KDL-37FA500 ONLY

AC POWER CORD



SECTION 2: SERVICE ADJUSTMENTS

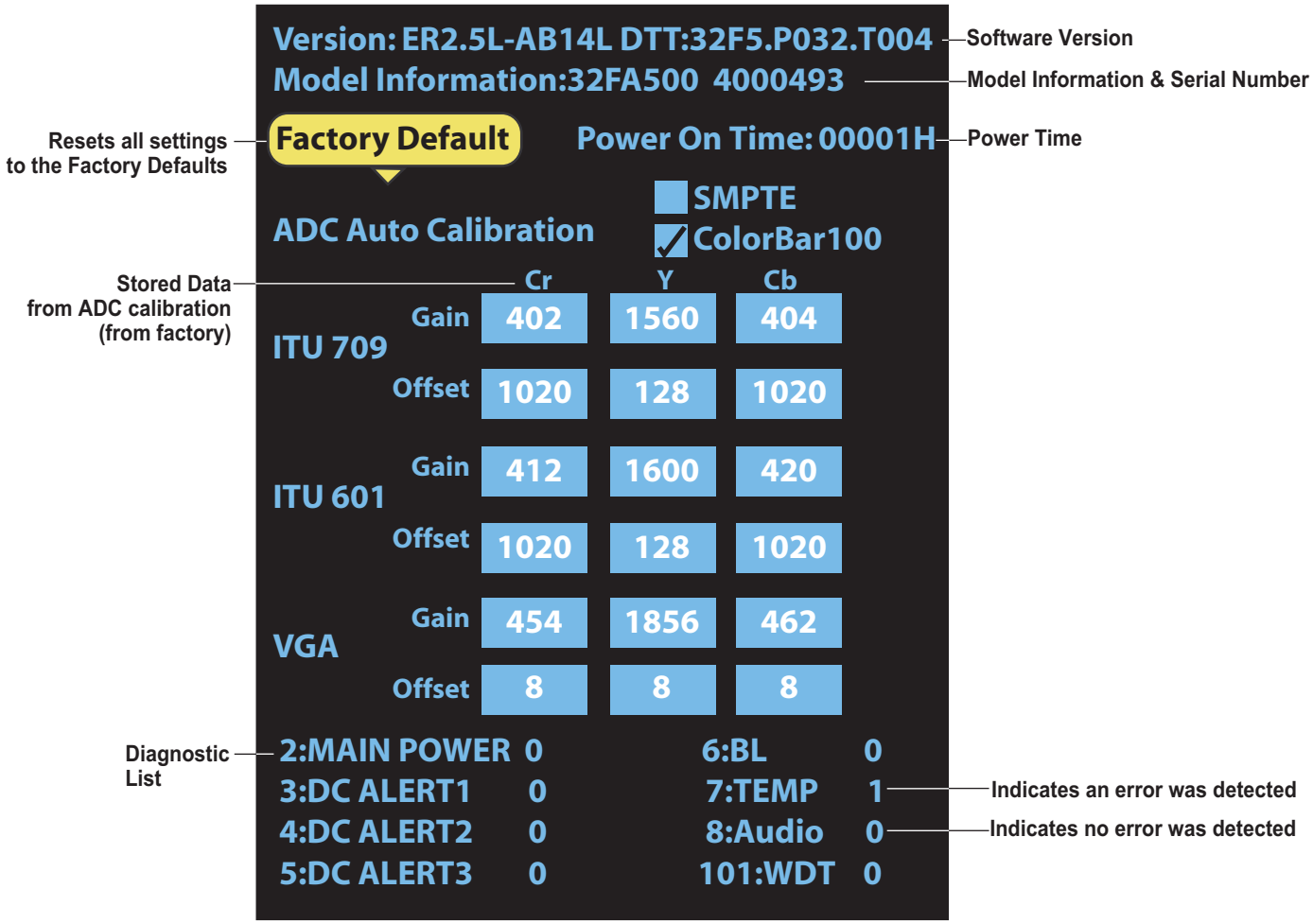
2-1. RESETTING THE TV TO THE FACTORY DEFAULTS

Traditional Service Mode is not available in this chassis. The only option for service technicians is to reset all of the settings to the Factory Default from the Self Diagnostic screen.

CAUTION: Resetting the TV to the Factory Defaults will *over-write all customer settings*. Before performing this reset, contact the customer to determine what adjustments they have made.

1. TV must be in standby mode. (Power off).
2. Press the following buttons on the Remote Commander within a second of each other:
   DISPLAY → Channel 5 → Volume + → TV POWER.
   The Self Check list displays. ↑ This is the SAME as accessing Service Adjustments.

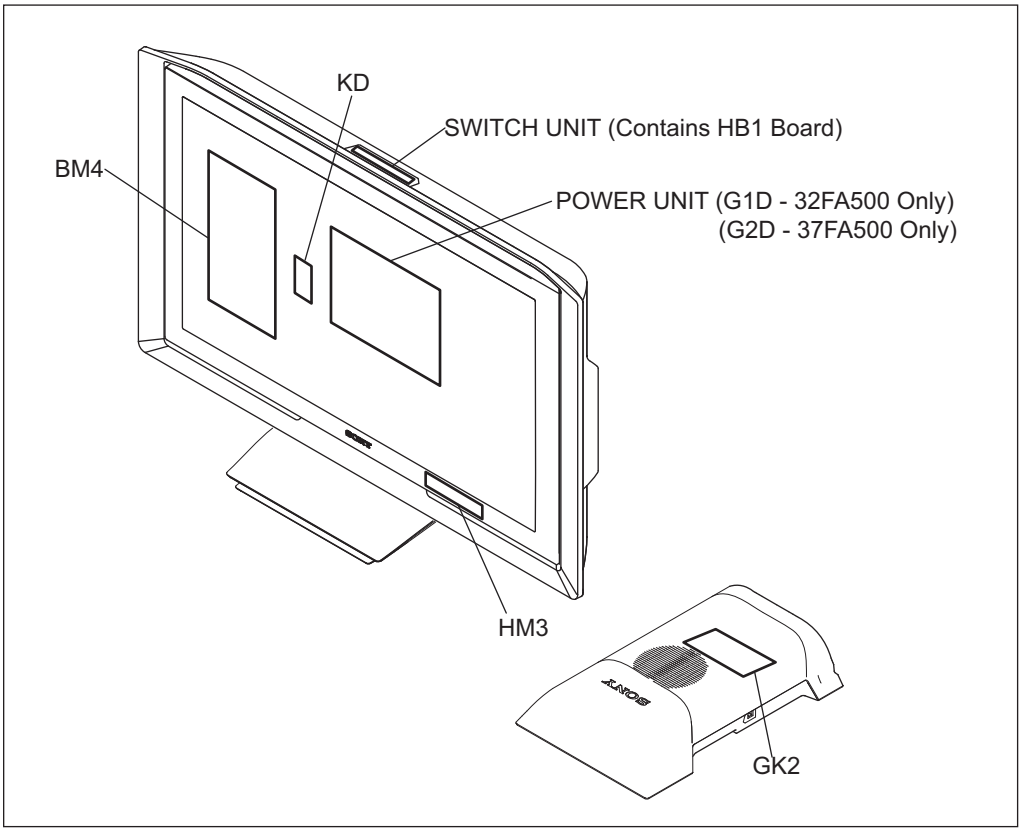
Results for all of the following diagnostic items are displayed at the bottom of the screen. No error has occurred if the screen displays a "0".



3. From the Self Diagnostic screen, select **Factory Default** button and then select **Yes**.
4. To start Auto Program, select **Yes**.
   NOTE: Allow 30+ minutes for Auto Program to complete.
5. Using the customers information, reset their adjustments.

SECTION 3: DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



3-2. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS INFORMATION

All capacitors are in µF unless otherwise noted. pF : µµF 50WV or less are not indicated except for electrolytics and tantalums.

All electrolytics are in 50V unless otherwise specified.

All resistors are in ohms. kΩ=1000Ω, MΩ=1000kΩ

Indication of resistance, which does not have one for rating electrical power, is as follows: Pitch : 5mm
Rating electrical power : $^1/_4$ W

$^1/_4$ W in resistance, $^1/_{10}$ W and $^1/_{16}$ W in chip resistance.

: nonflammable resistor

: fusible resistor

: internal component

: panel designation and adjustment for repair

: earth ground

: earth-chassis

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

Readings are taken with a color-bar signal input.

Readings are taken with a 10MΩ digital multimeter.

Voltages are DC with respect to ground unless otherwise noted.

Voltage variations may be noted due to normal production tolerances.

All voltages are in V.

S : Measurement impossibility.

: B+line.

: B-line. (Actual measured value may be different).

: signal path. (RF)

Circled numbers are waveform references.

The components identified by shading and ⚠ symbol are critical for safety. Replace only with part number specified.

The symbol indicates a fast operating fuse and is displayed on the component side of the board. Replace only with fuse of the same rating as marked.

NOTE: The components identified by a red outline and a mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

REFERENCE INFORMATION

RESISTOR

: RN	METAL FILM
: RC	SOLID
: FPRD	NONFLAMMABLE CARBON
: FUSE	NONFLAMMABLE FUSIBLE
: RW	NONFLAMMABLE WIREWOUND
: RS	NONFLAMMABLE METAL OXIDE
: RB	NONFLAMMABLE CEMENT
: ※	ADJUSTMENT RESISTOR

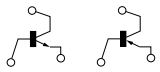
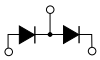
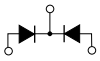
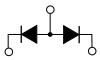
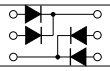
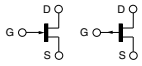
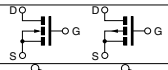
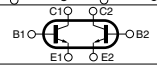
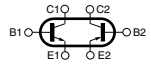
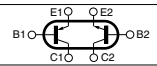
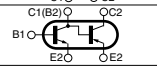
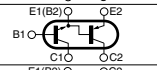
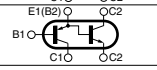
CAPACITOR

: TA	TANTALUM
: PS	STYROL
: PP	POLYPROPYLENE
: PT	MYLAR
: MPS	METALIZED POLYESTER
: MPP	METALIZED POLYPROPYLENE
: ALB	BIPOLAR
: ALT	HIGH TEMPERATURE
: ALR	HIGH RIPPLE

COIL

: LF-8L MICRO INDUCTOR

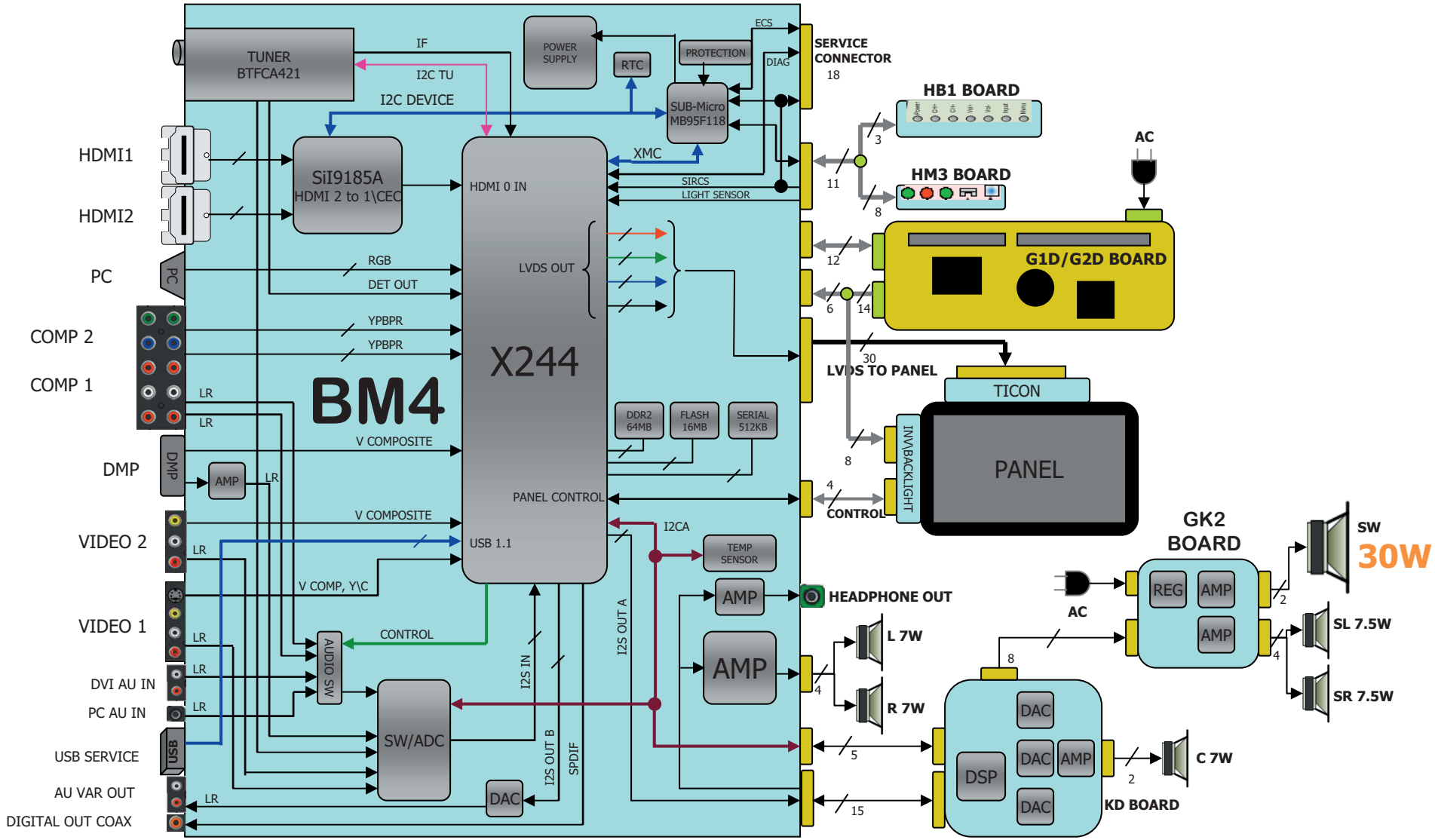
Terminal name of semiconductors in silk screen printed circuit (※)

	Device	Printed symbol	Terminal name	Circuit
1	Transistor		Collector Base Emitter	
2	Transistor		Collector Base Emitter	
3	Diode		Cathode Anode	
4	Diode		Cathode Anode (NC)	
5	Diode		Cathode Anode (NC)	
6	Diode		Common Anode Cathode	
7	Diode		Common Anode Cathode	
8	Diode		Common Anode Anode	
9	Diode		Common Anode Anode	
10	Diode		Common Cathode Cathode	
11	Diode		Common Cathode Cathode	
12	Diode		Anode Cathode Anode Anode Cathode Anode	
13	Transistor (FET)		Drain Source Gate	
14	Transistor (FET)		Drain Source Gate	
15	Transistor (FET)		□ Source □ Drain □ Gate	
16	Transistor		□ Emitter □ Collector □ Base	
17	Transistor		C2 B1 E1 E2 B2 C1	
18	Transistor		C1 B2 E2 E1 B1 C2	
19	Transistor		C1 B2 E2 E1 B1 C2	
20	Transistor		C1 B2 E2 E1 B1 C2	
21	Transistor		E2 B1 E1 C2 C1(B2)	
22	Transistor		(B2) B1 E1 E2 C1 C2	
23	Transistor		(B2) E2 E1 B1 C2 C1	
–	Discrete semiconductot			

(Chip semiconductors that are not actually used are included.)

Ver.1.6

3-3. BLOCK DIAGRAMS



3-4. SCHEMATICS AND SUPPORTING INFORMATION

BM4 BOARD SCHEMATIC DIAGRAM (1 OF 10)

VideoInput1

VideoInput2

ComponentInput1

ComponentInput2

Coax/Audio Output

PC_LR IN

AUDIO IN

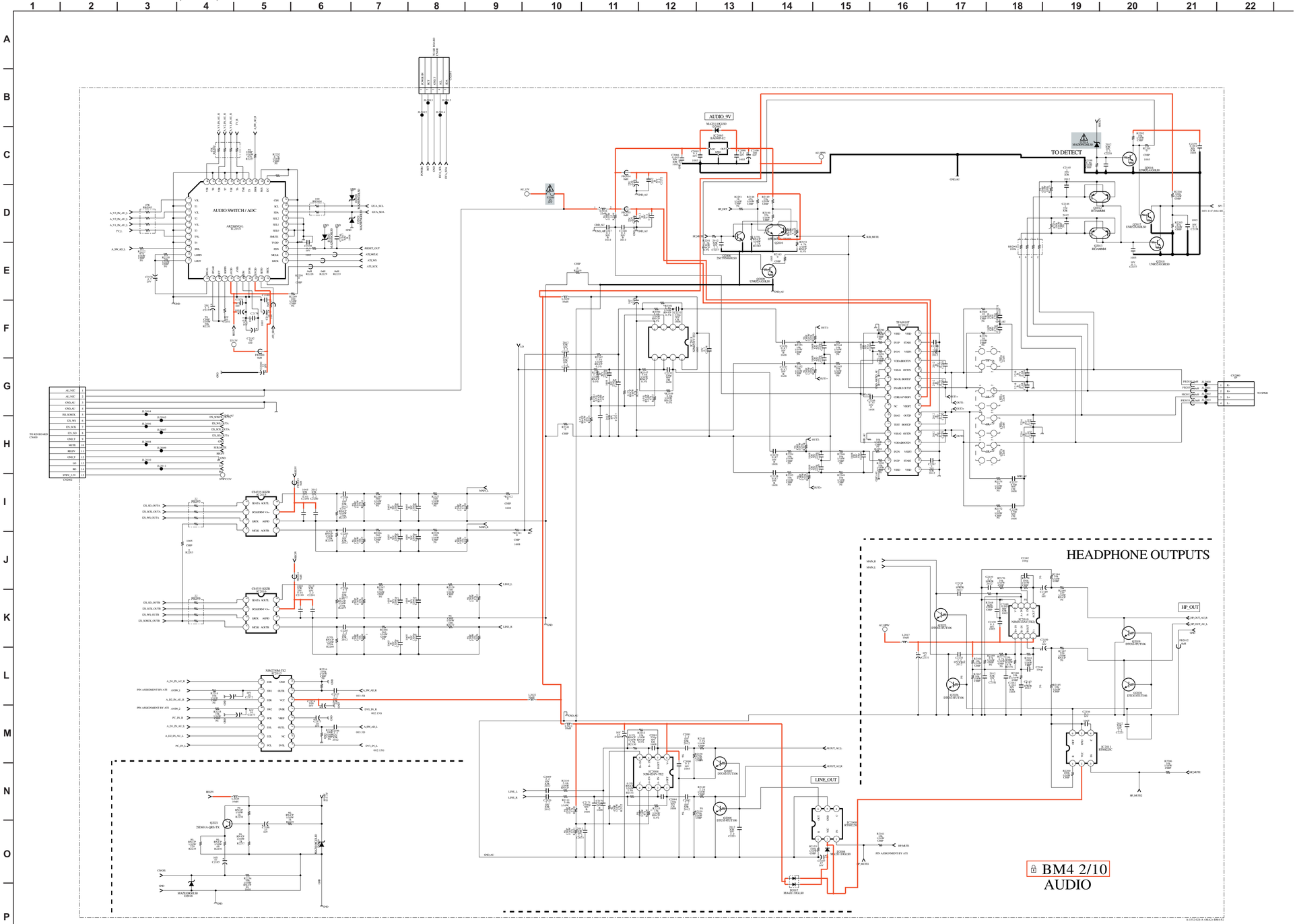
HP

PC BLOCK

DigitalMediaPort

BM4 1/10
I/O

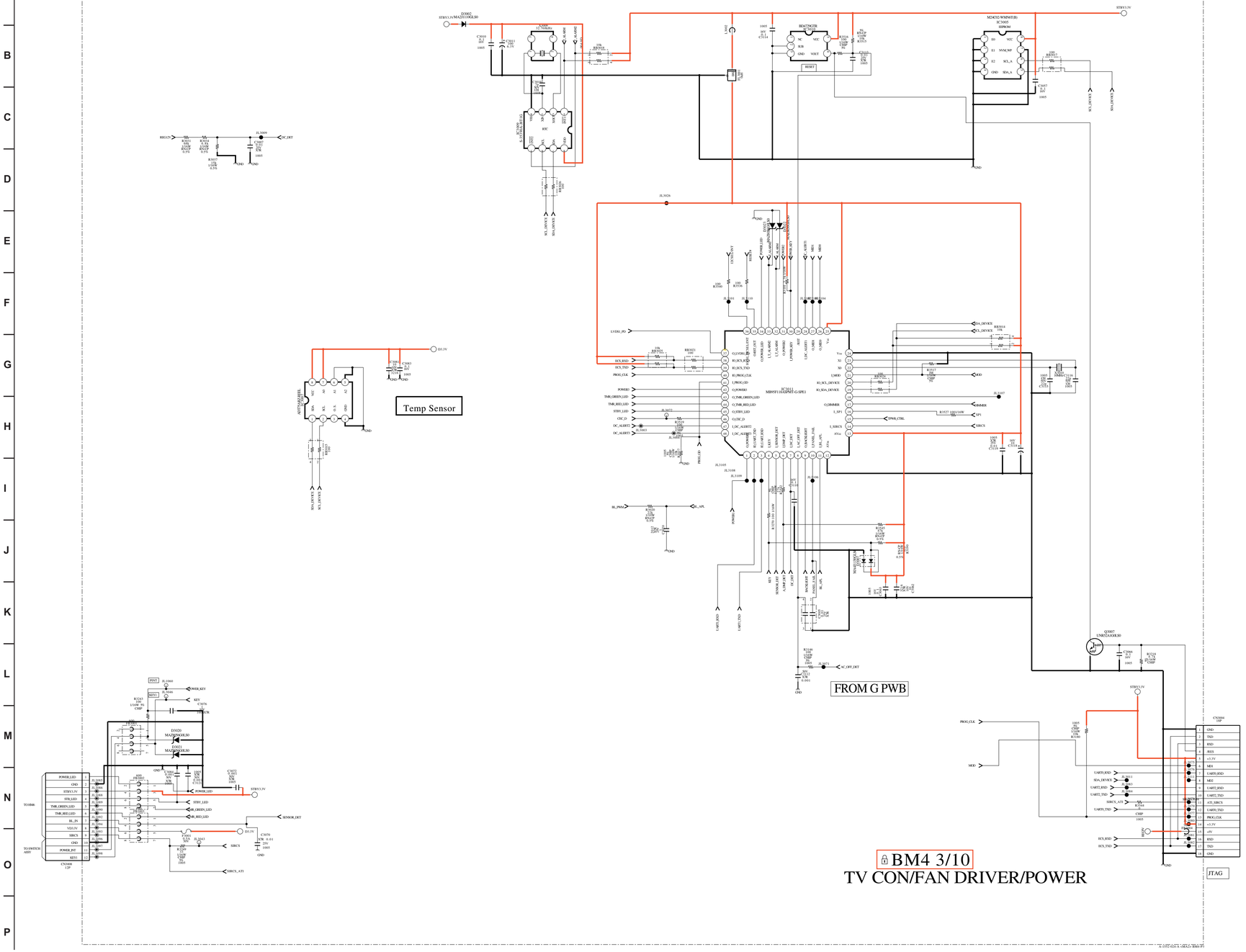
BM4 BOARD SCHEMATIC DIAGRAM (2 OF 10)



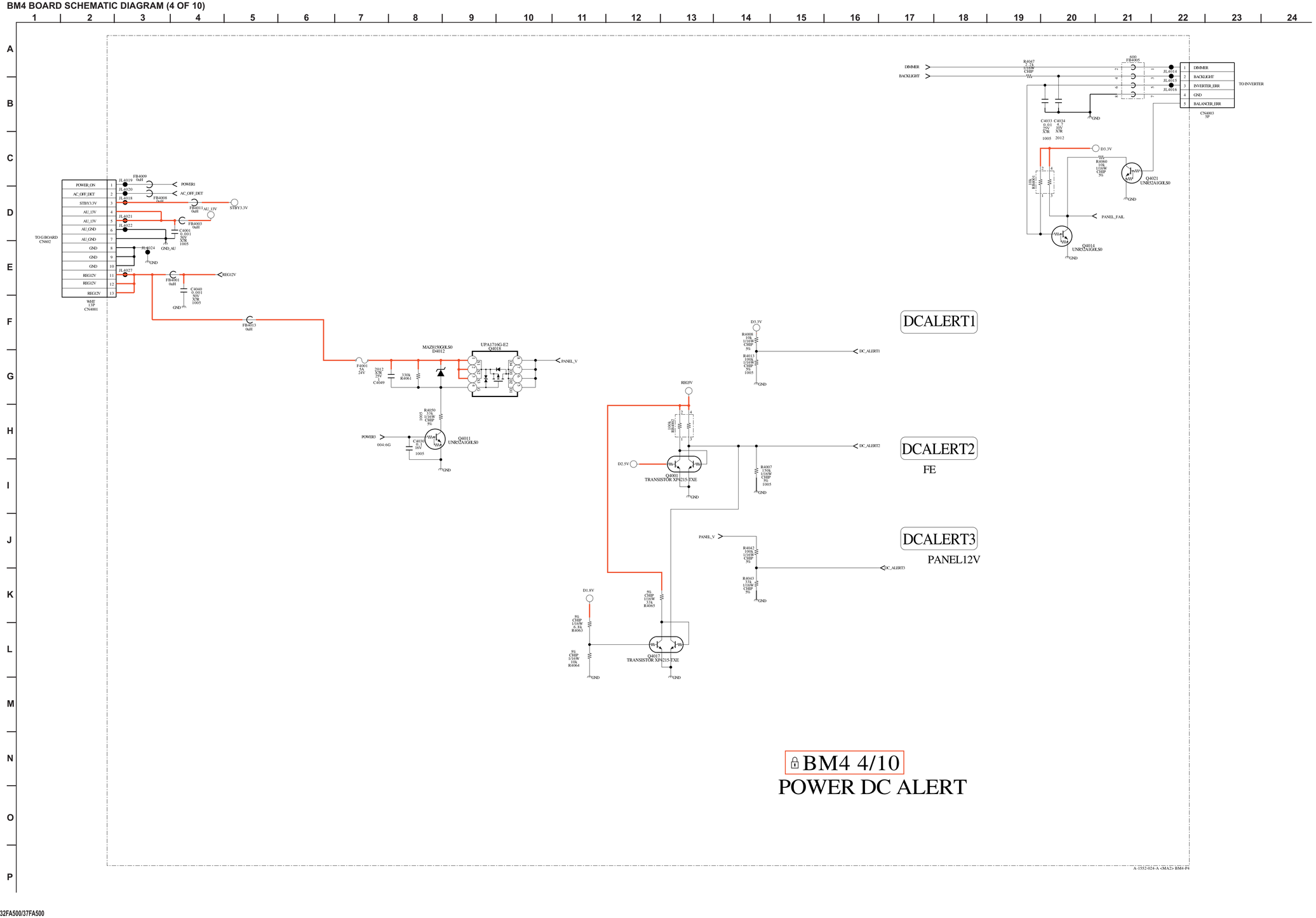
BM4 BOARD SCHEMATIC DIAGRAM (3 OF 10)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

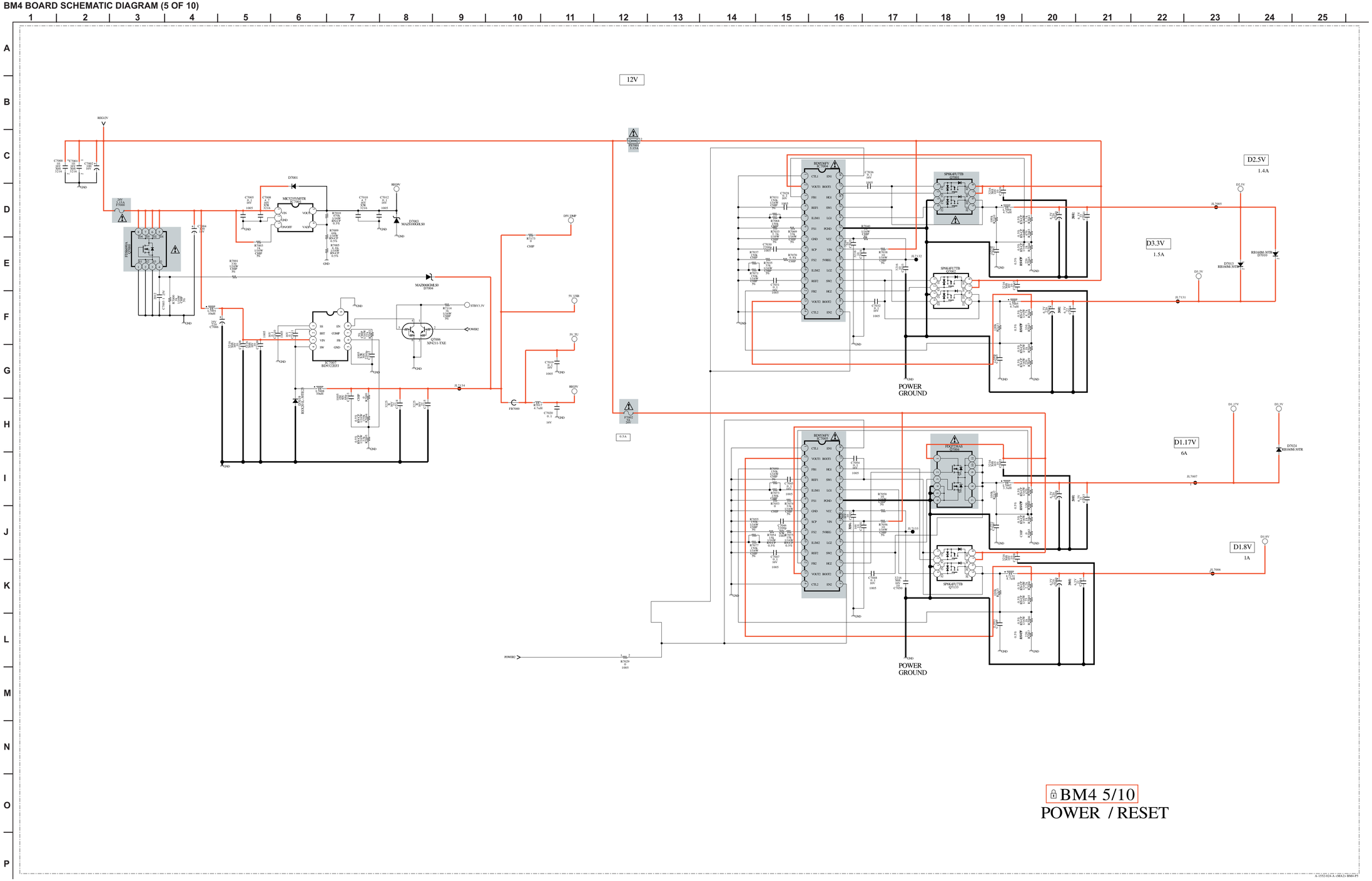
A B C D E F G H I J K L M N O P



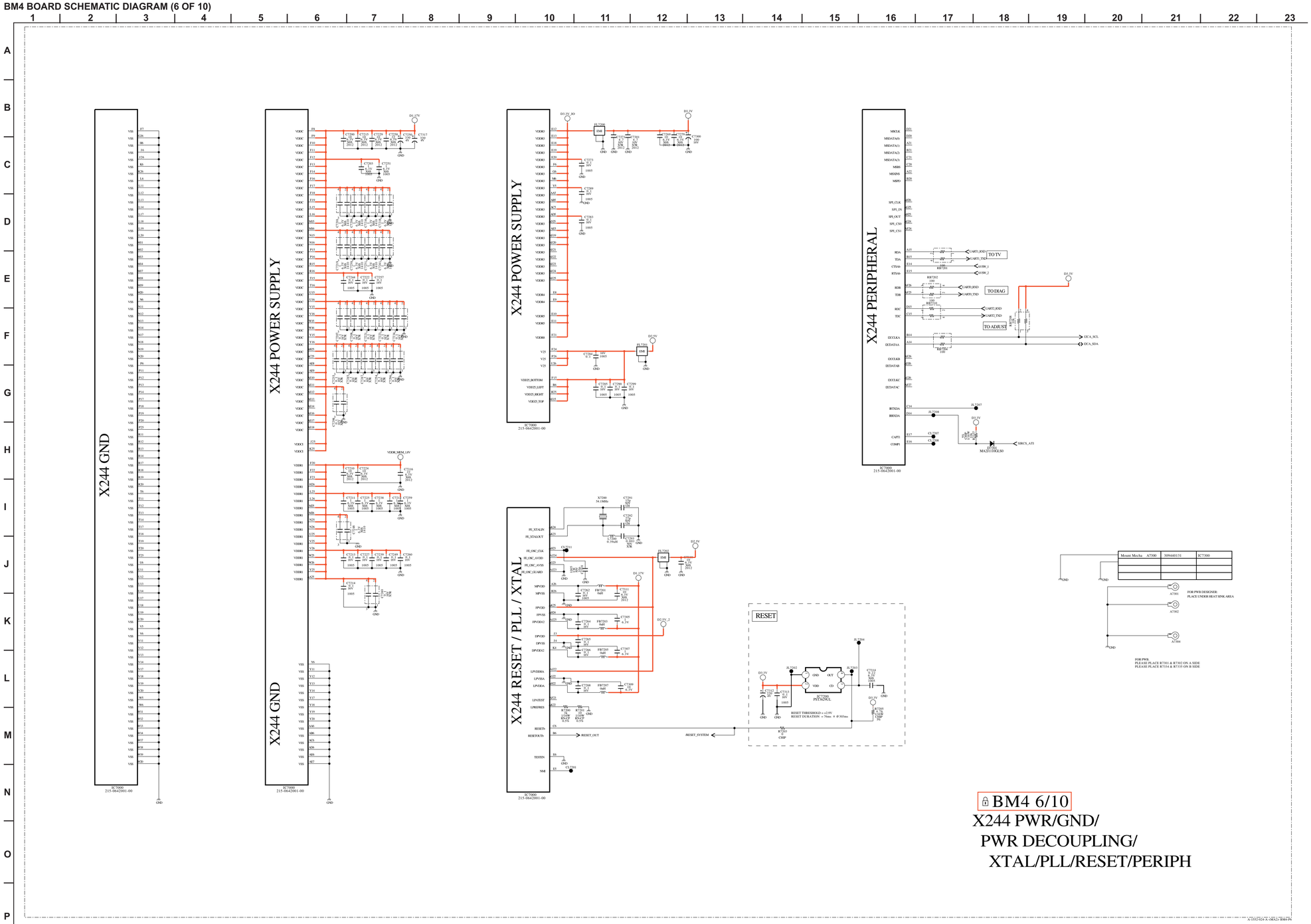
BM4 BOARD SCHEMATIC DIAGRAM (4 OF 10)



BM4 BOARD SCHEMATIC DIAGRAM (5 OF 10)



BM4 BOARD SCHEMATIC DIAGRAM (6 OF 10)



BM4 BOARD SCHEMATIC DIAGRAM (7 OF 10)

DDR2 (x16)

X244 DDR2 INTERFACE (x16)

IC7401
HYB18TC512160BCF-2.5

X244 FLEXBUS INTERFACE

X244 NF INTERFACE

NAND FLASH

SERIAL FLASH

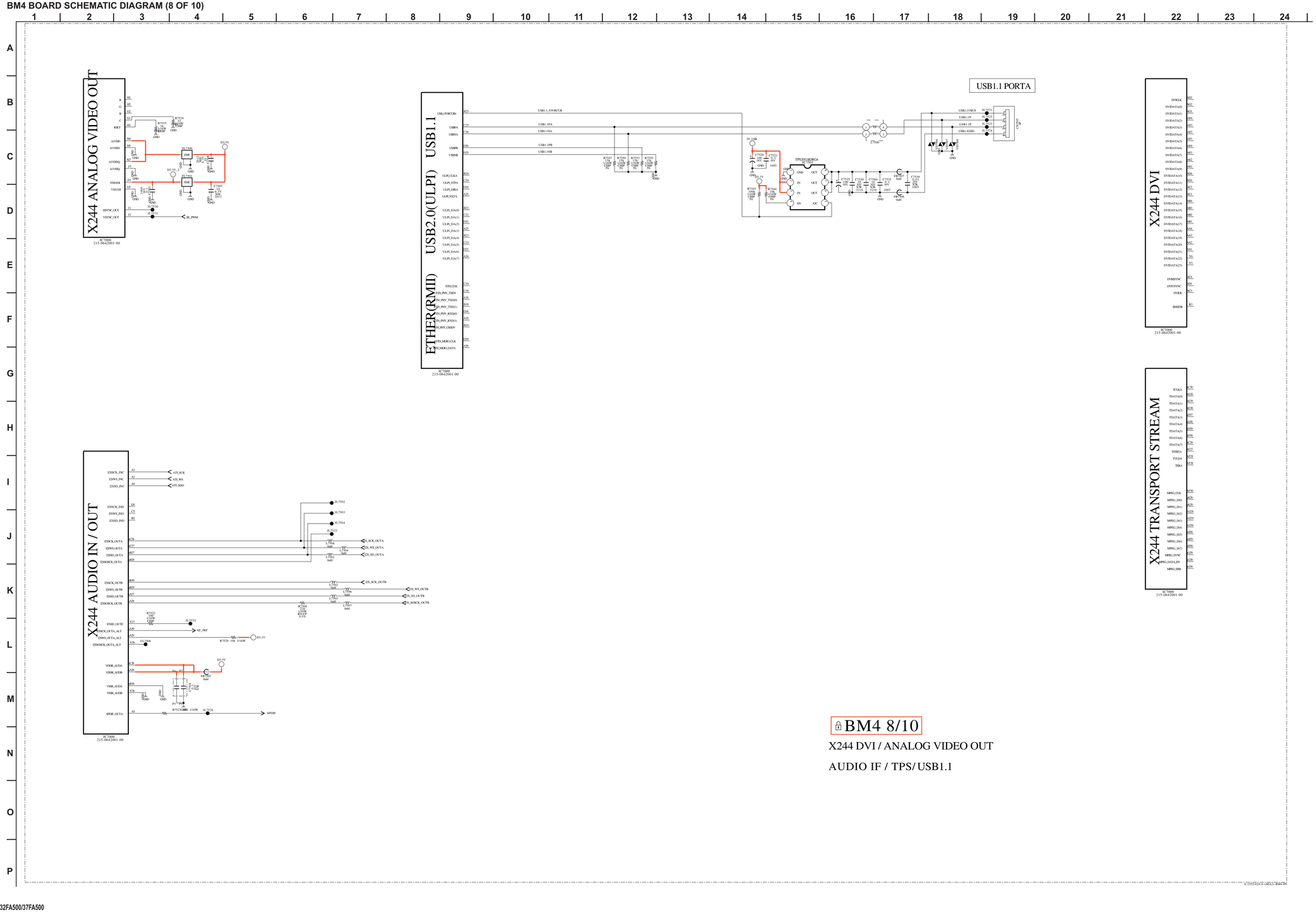
STRAPS

TERMINATION FOR DDR2 DIFFERENTIAL CLOCK
PLACE AT THE END OF THE CLOCK LINES UNDER
THE MEMORY CHIP

BM4 7/10

DDR2/NAND FLASH/ SERIAL FLASH
FLEXBUS / ONENAND BOOT STRAP

BM4 BOARD SCHEMATIC DIAGRAM (8 OF 10)

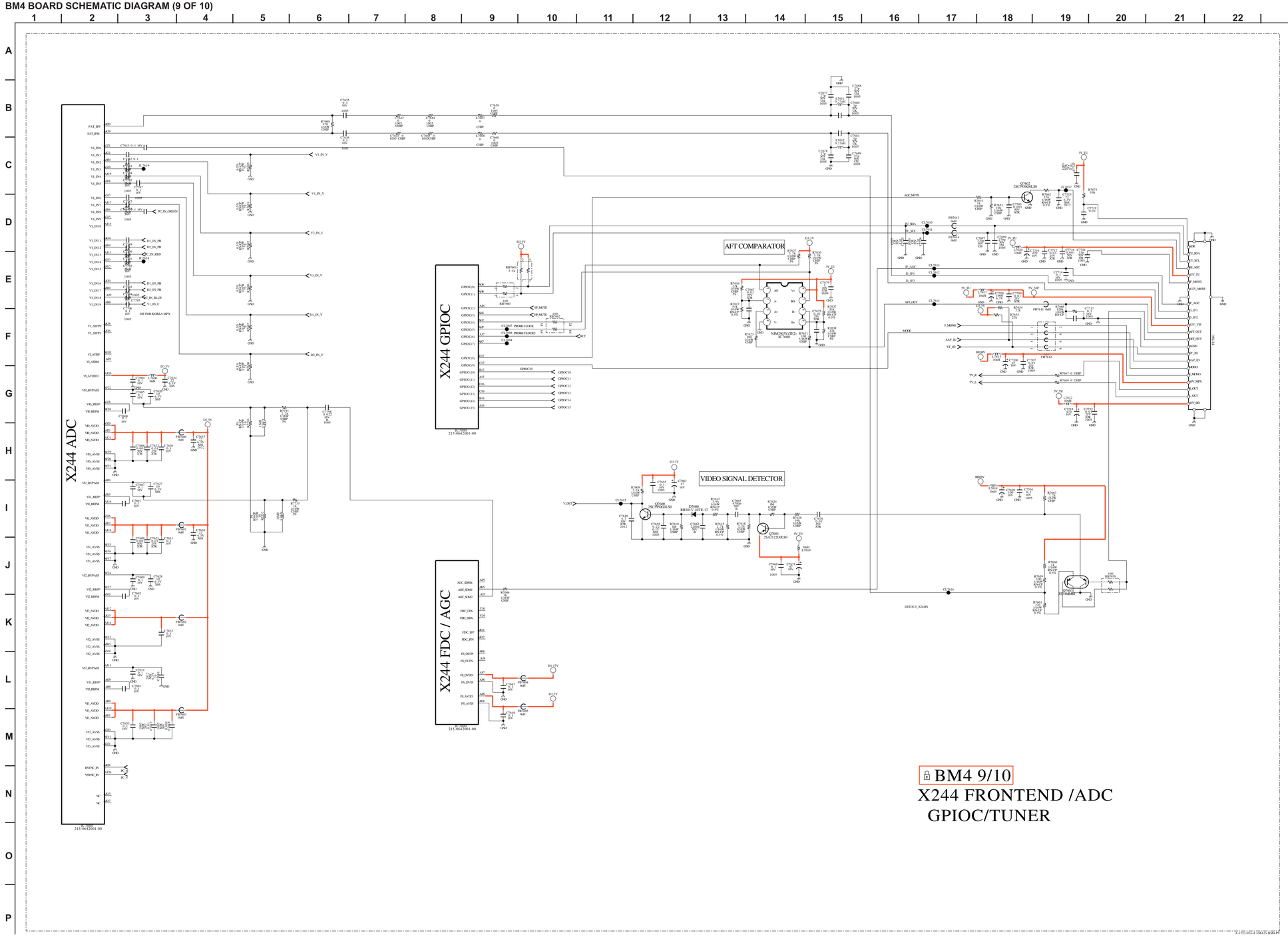


BM4 8/10

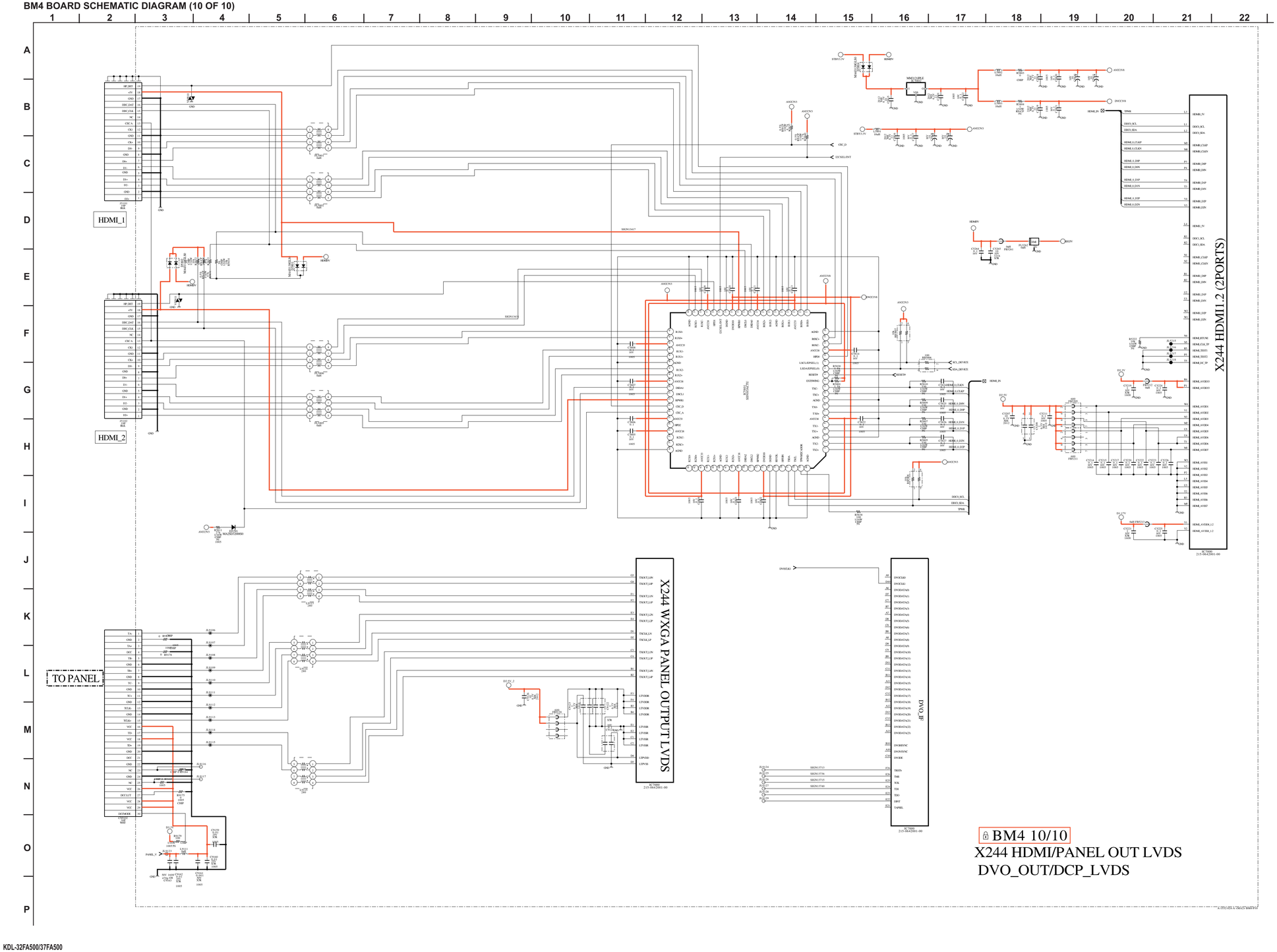
X244 DVI / ANALOG VIDEO OUT

AUDIO IF / TPS/ USB1.1

BM4 BOARD SCHEMATIC DIAGRAM (9 OF 10)



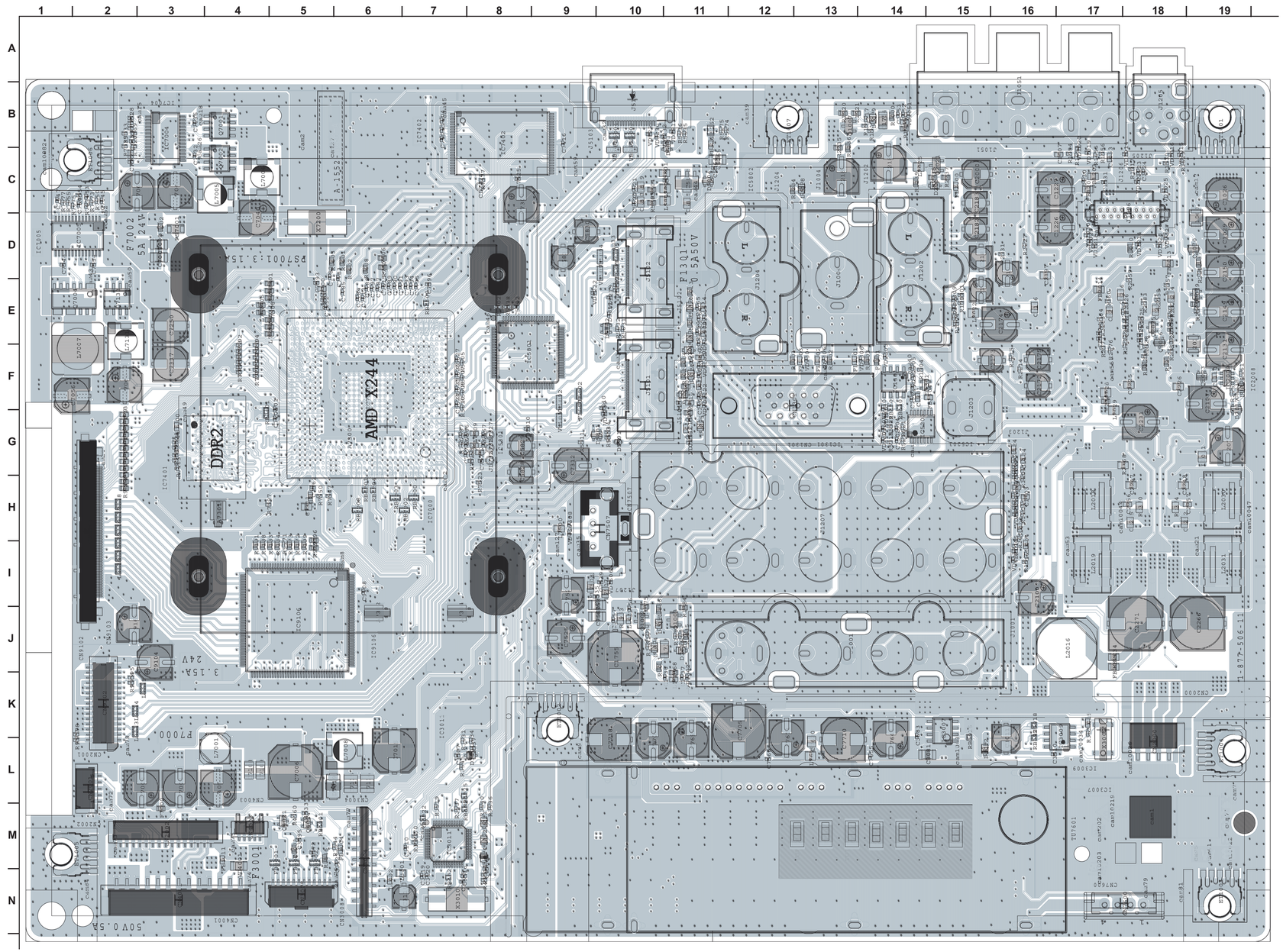
BM4 BOARD SCHEMATIC DIAGRAM (10 OF 10)



BM4

[I/O; AUDIO; TVCON/FAN DRIVER/POWER; POWER DC ALERT; POWER/RESET; X244 PWR/GND/PWR DECOUPLING/XTAL/PLL/RESET/PERIPH; DDR2/NAND FLASH/ SERIAL FLASH/FLEXBUS/ONENAND BOOT STRAP; X244 DVI / ANALOG VIDEO OUT/AUDIO IF/TPS/USB1.1; X244 FRONTEND/ADC GPIOC/TUNER; X244 HDMI/PANEL OUT LVDS DVO_OUT/DCP_LVDS]

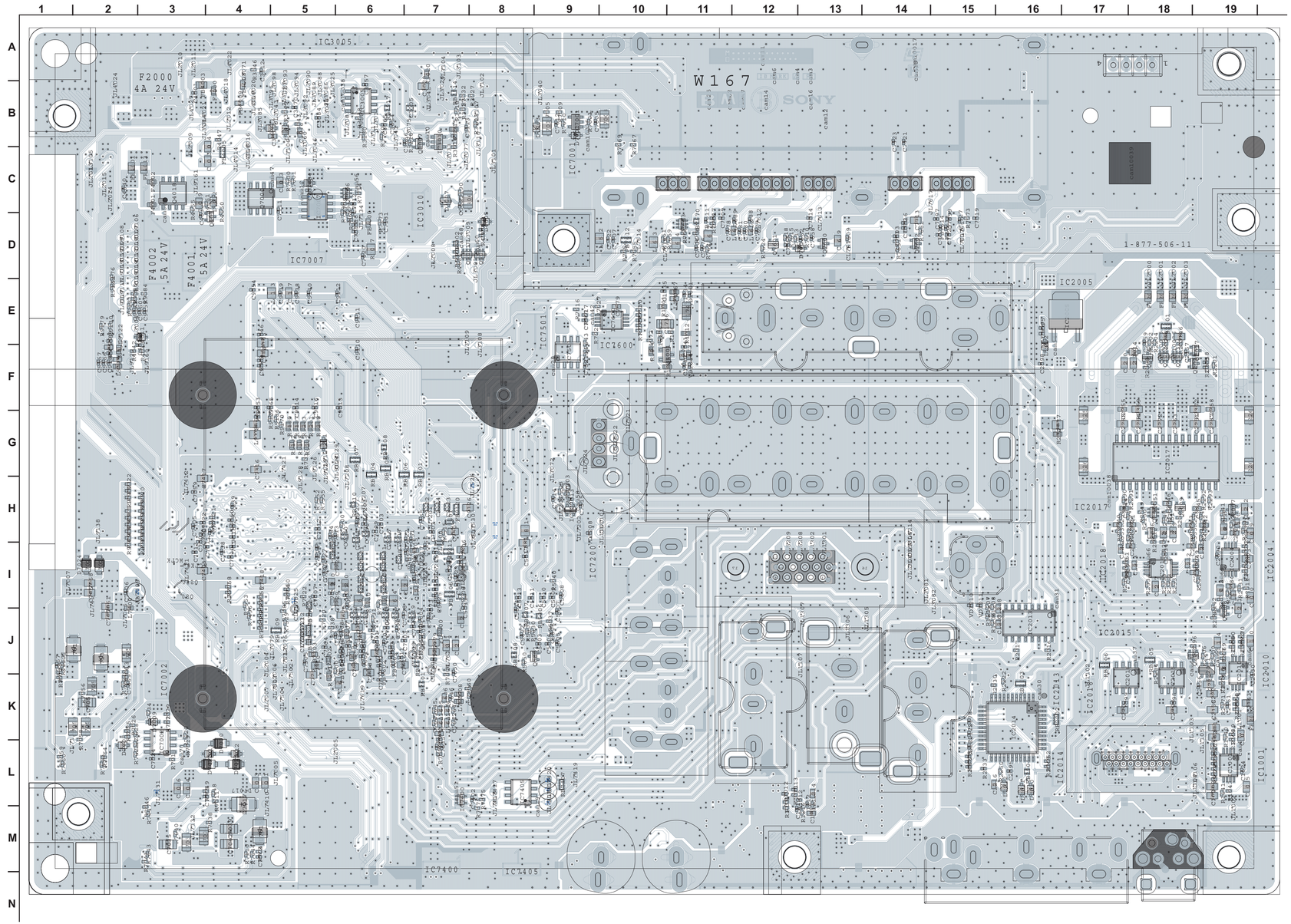
COMPONENT SIDE



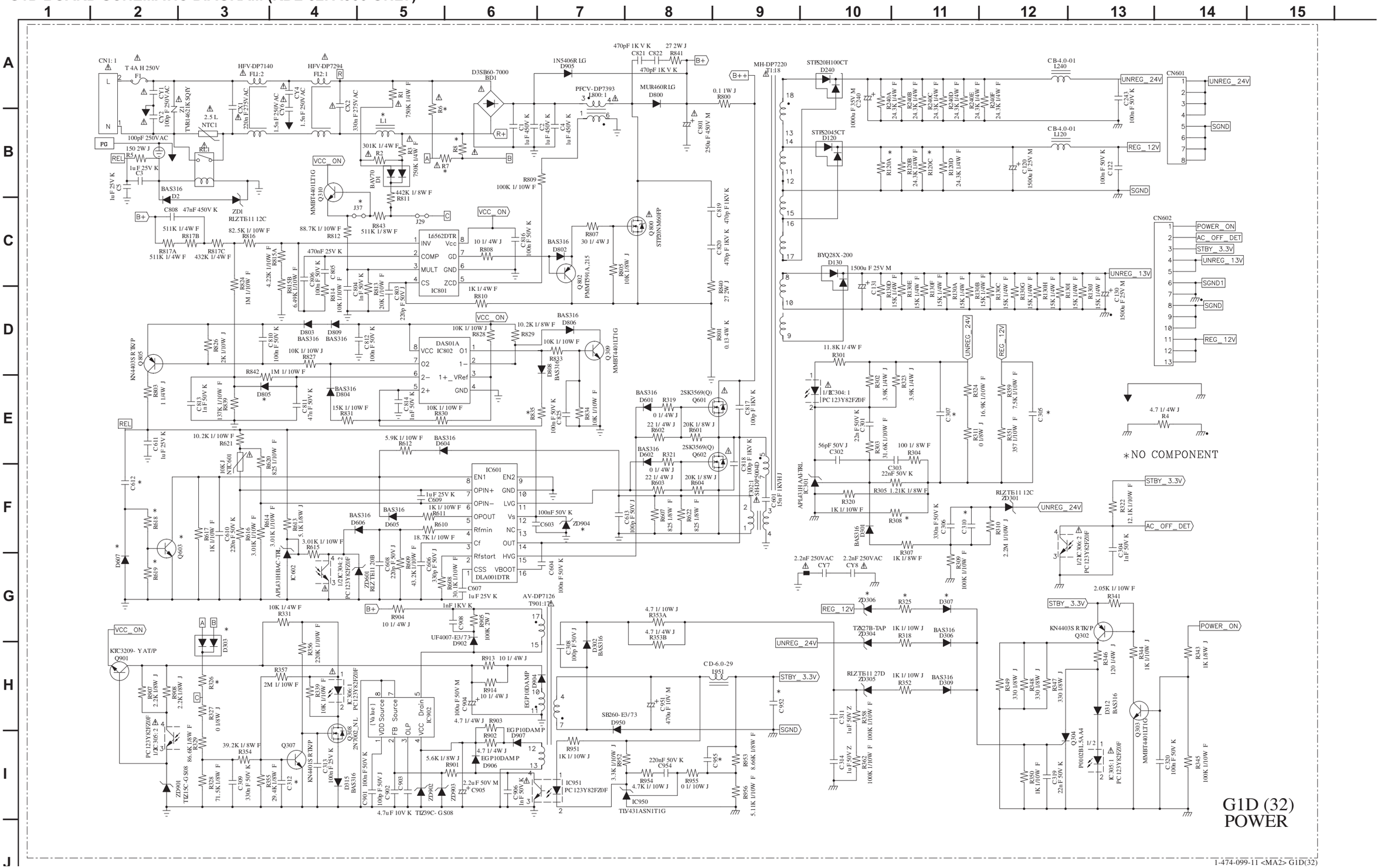
BM4

[I/O; AUDIO; TVCON/FAN DRIVER/POWER; POWER DC ALERT; POWER/RESET; X244 PWR/GND/PWR DECOUPLING/XTAL/PLL/RESET/PERIPH; DDR2/NAND FLASH/ SERIAL FLASH/FLEXBUS/ONENAND BOOT STRAP; X244 DVI / ANALOG VIDEO OUT/AUDIO IF/TPS/USB1.1; X244 FRONTEND/ADC GPIOC/TUNER; X244 HDMI/PANEL OUT LVDS DVO_OUT/DCP_LVDS]

CONDUCTOR SIDE



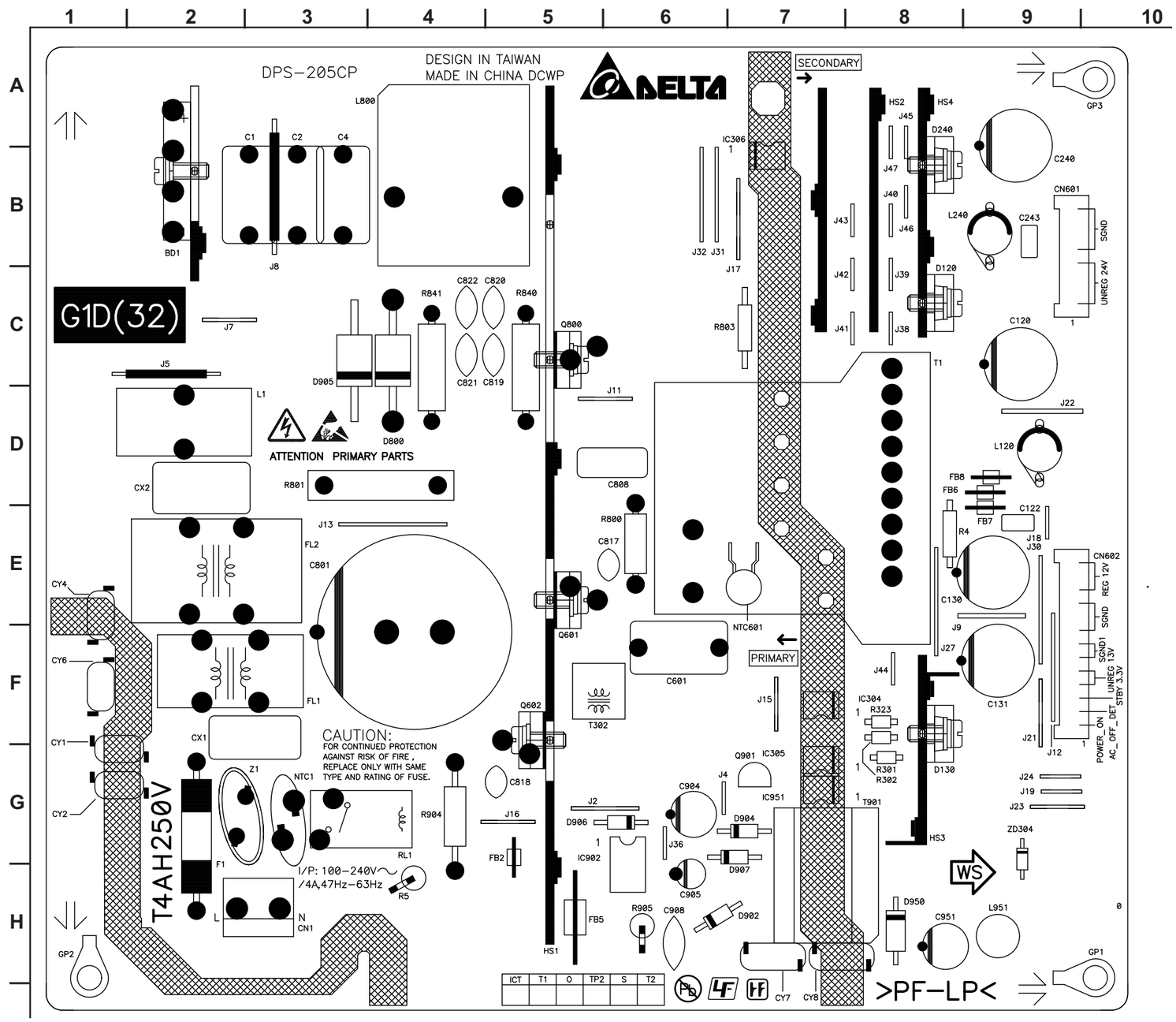
G1D BOARD SCHEMATIC DIAGRAM (KDL-32FA500 ONLY)



1-474-099-11 <MA2> G1D(32)

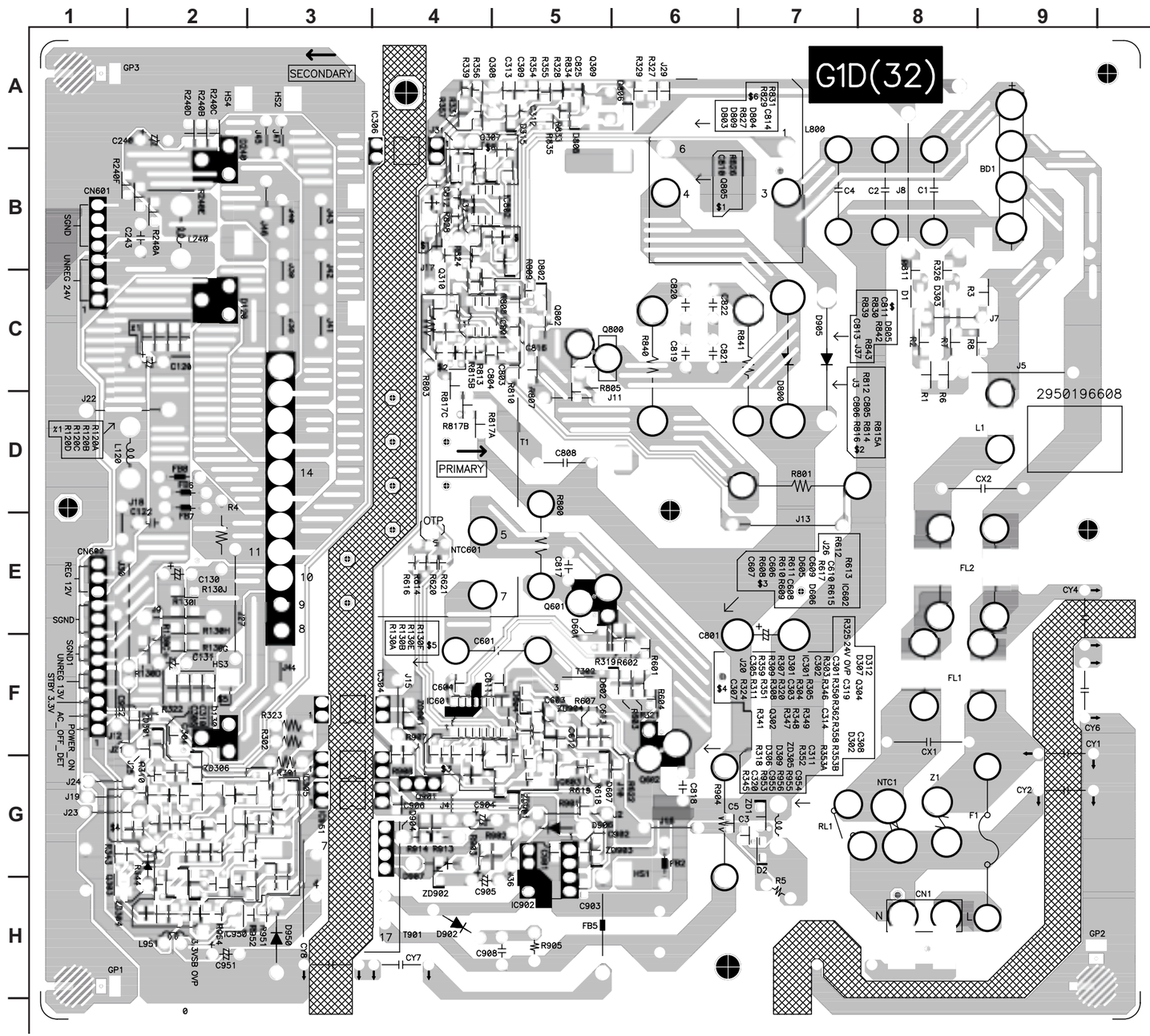
G1D [POWER]

COMPONENT SIDE (KDL-32FA500 ONLY)

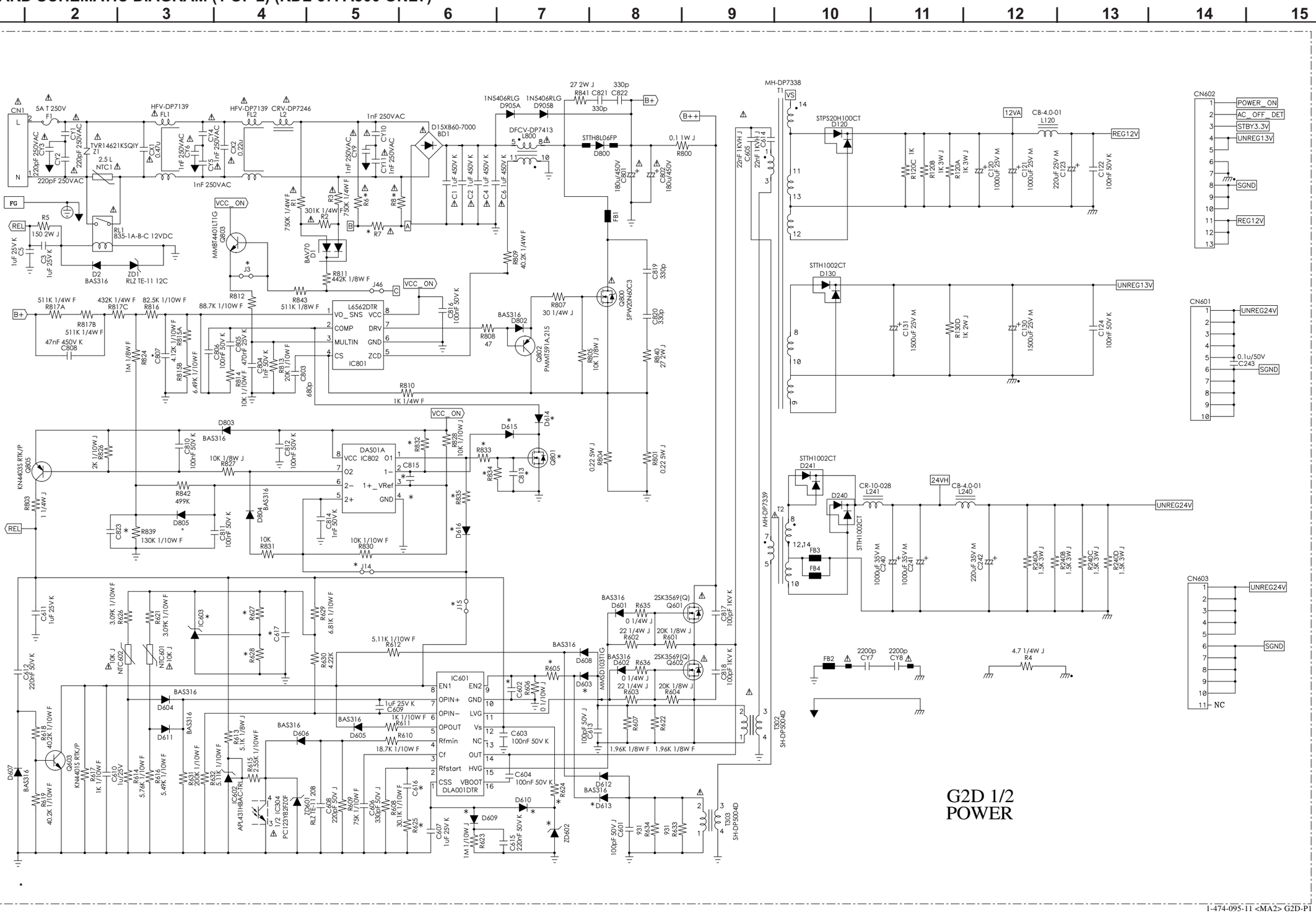


G1D [POWER]

CONDUCTOR SIDE (KDL-32FA500 ONLY)

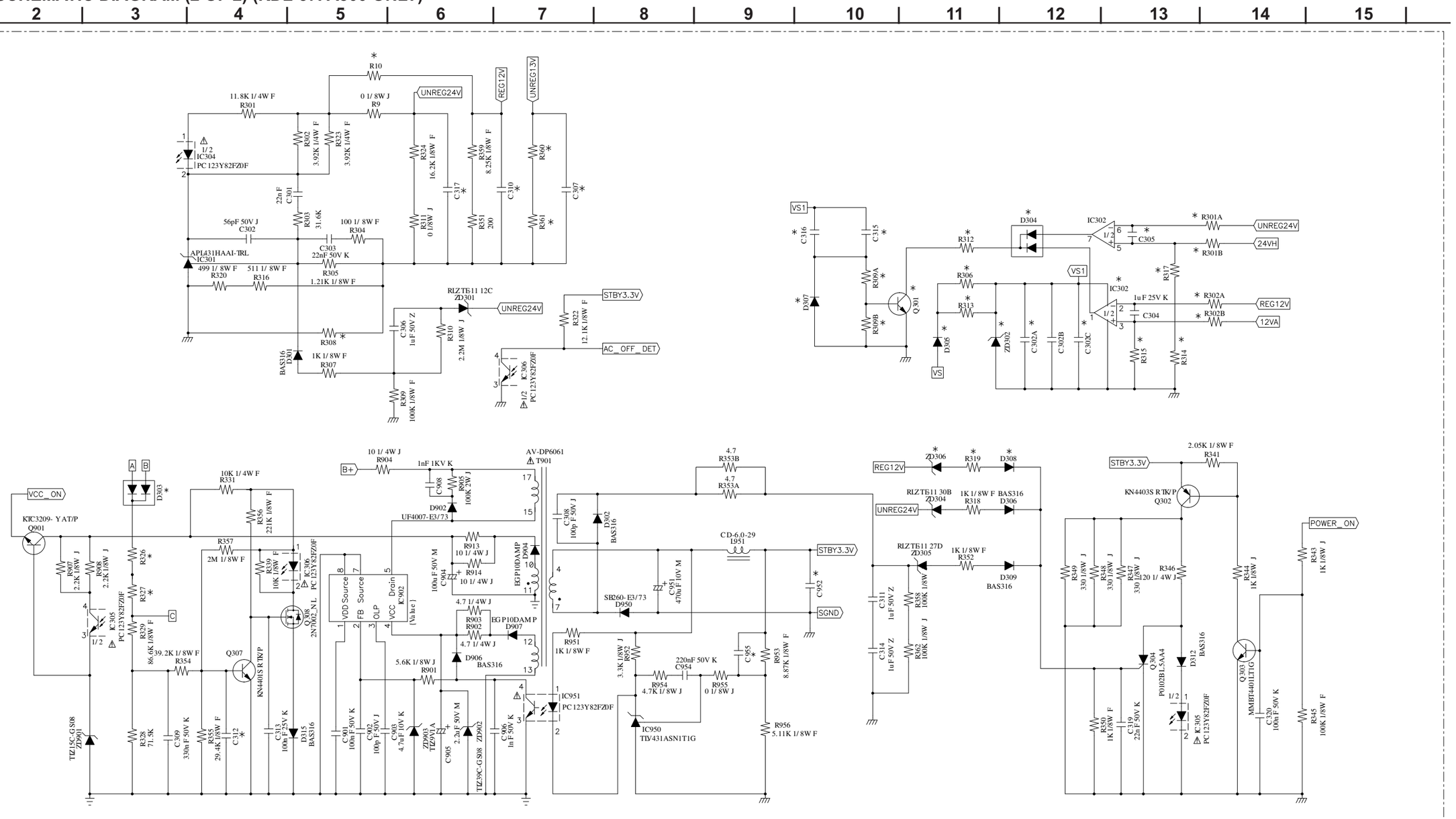


G2D BOARD SCHEMATIC DIAGRAM (1 OF 2) (KDL-37FA500 ONLY)



1-474-095-11 <MA2> G2D-P1

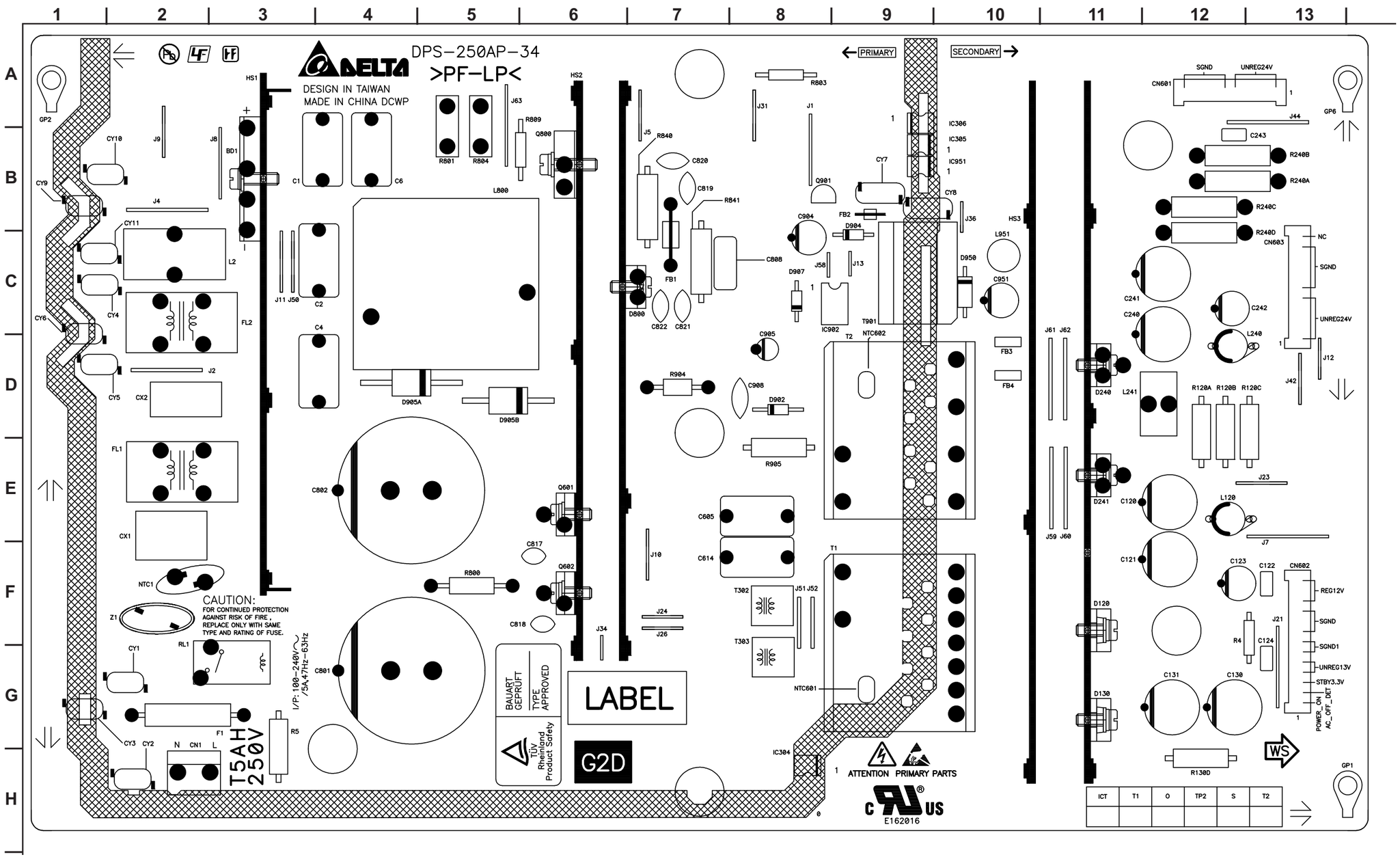
G2D BOARD SCHEMATIC DIAGRAM (2 OF 2) (KDL-37FA500 ONLY)



G2D 2/2
POWER

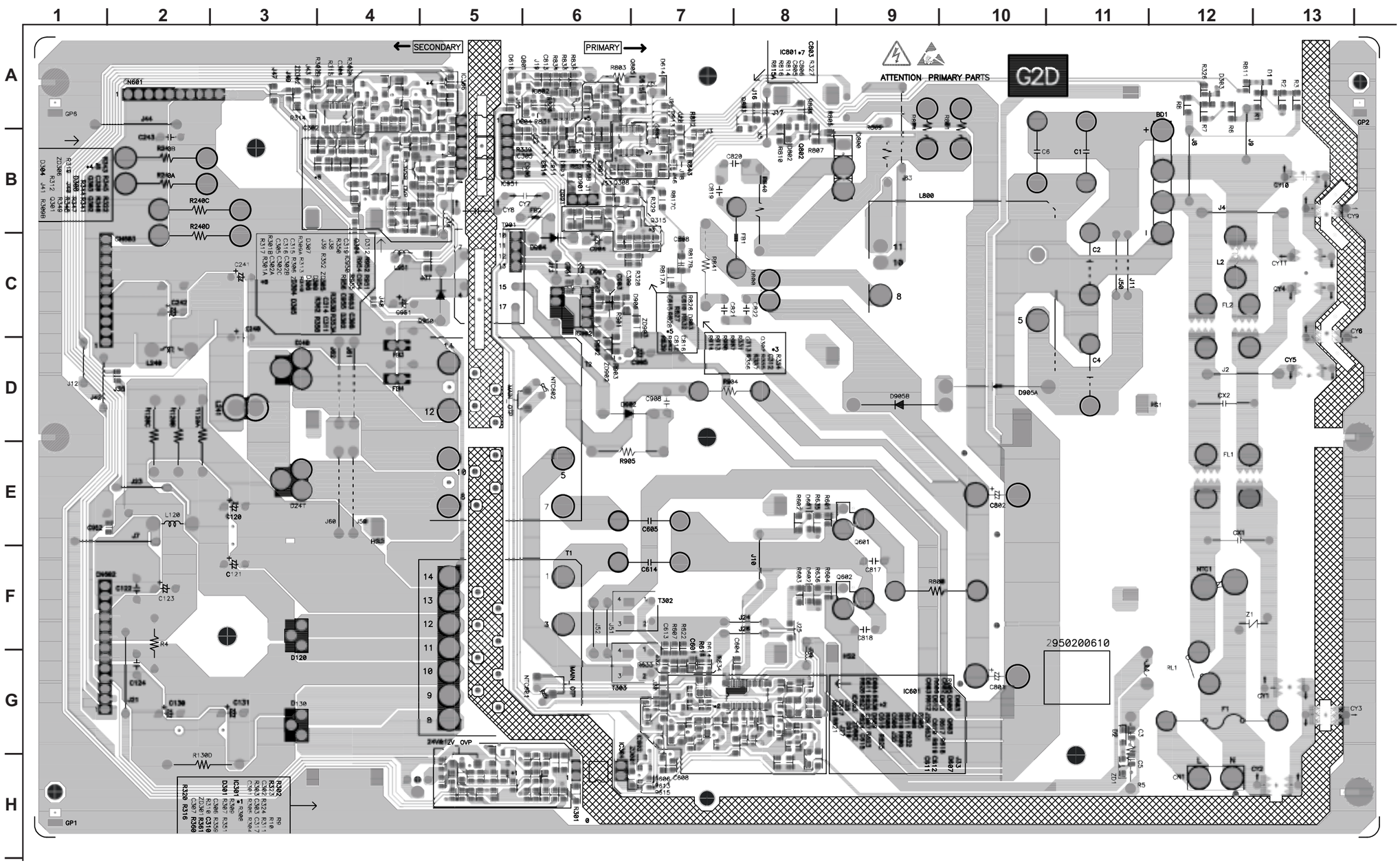
G2D [POWER]

COMPONENT SIDE (KDL-37FA500 ONLY)

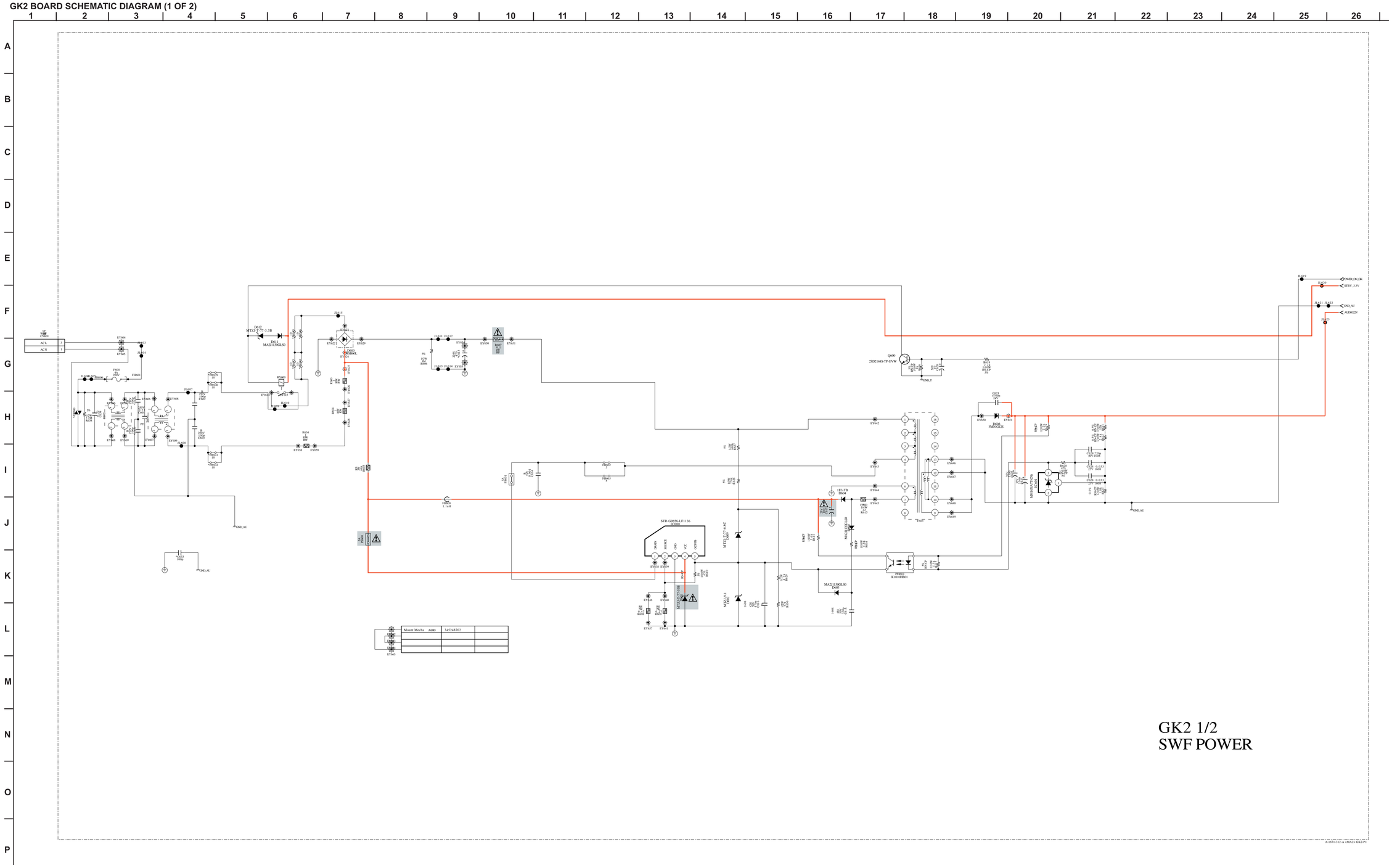


G2D [POWER]

CONDUCTOR SIDE (KDL-37FA500 ONLY)



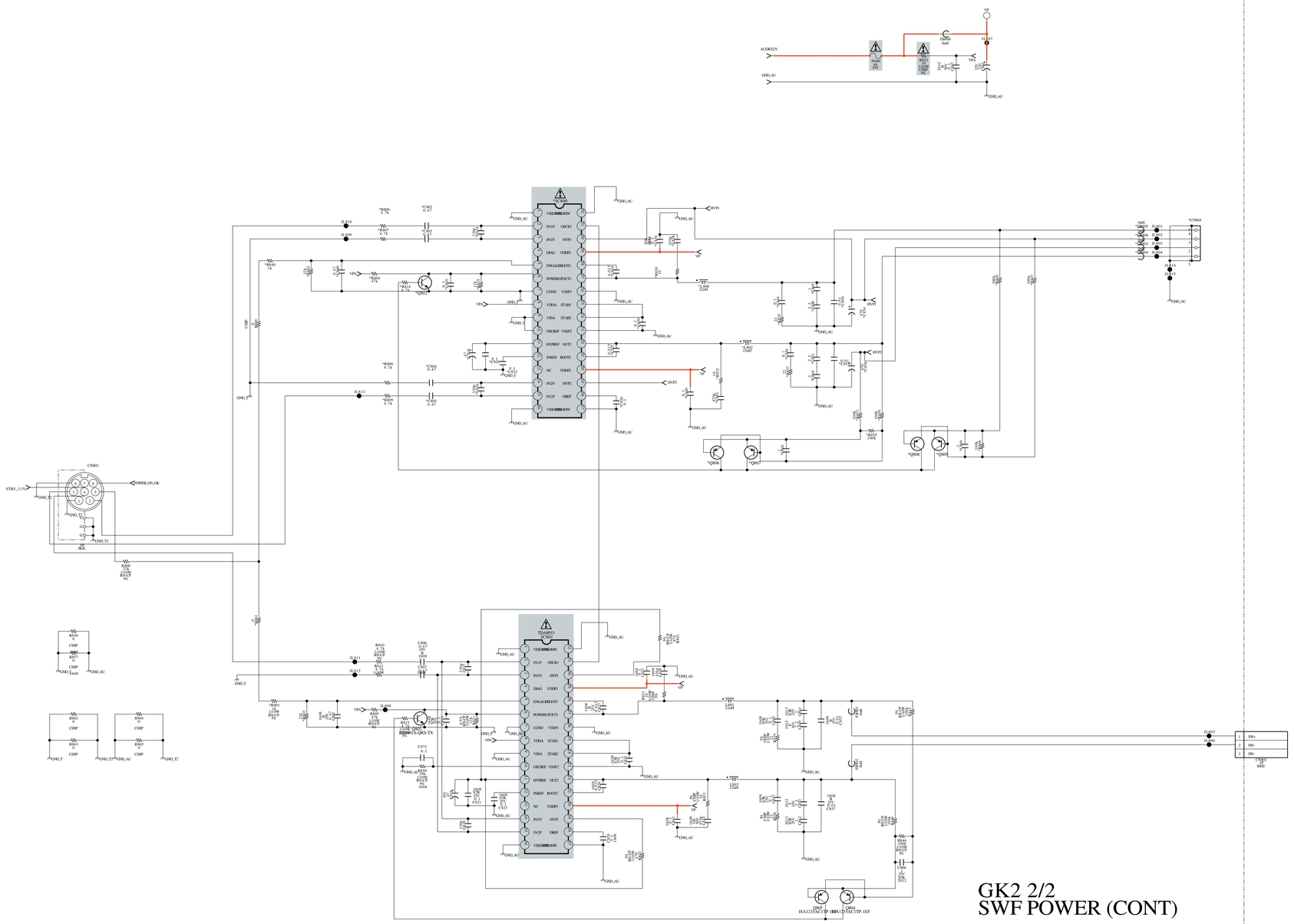
GK2 BOARD SCHEMATIC DIAGRAM (1 OF 2)



GK2 BOARD SCHEMATIC DIAGRAM (2 OF 2)

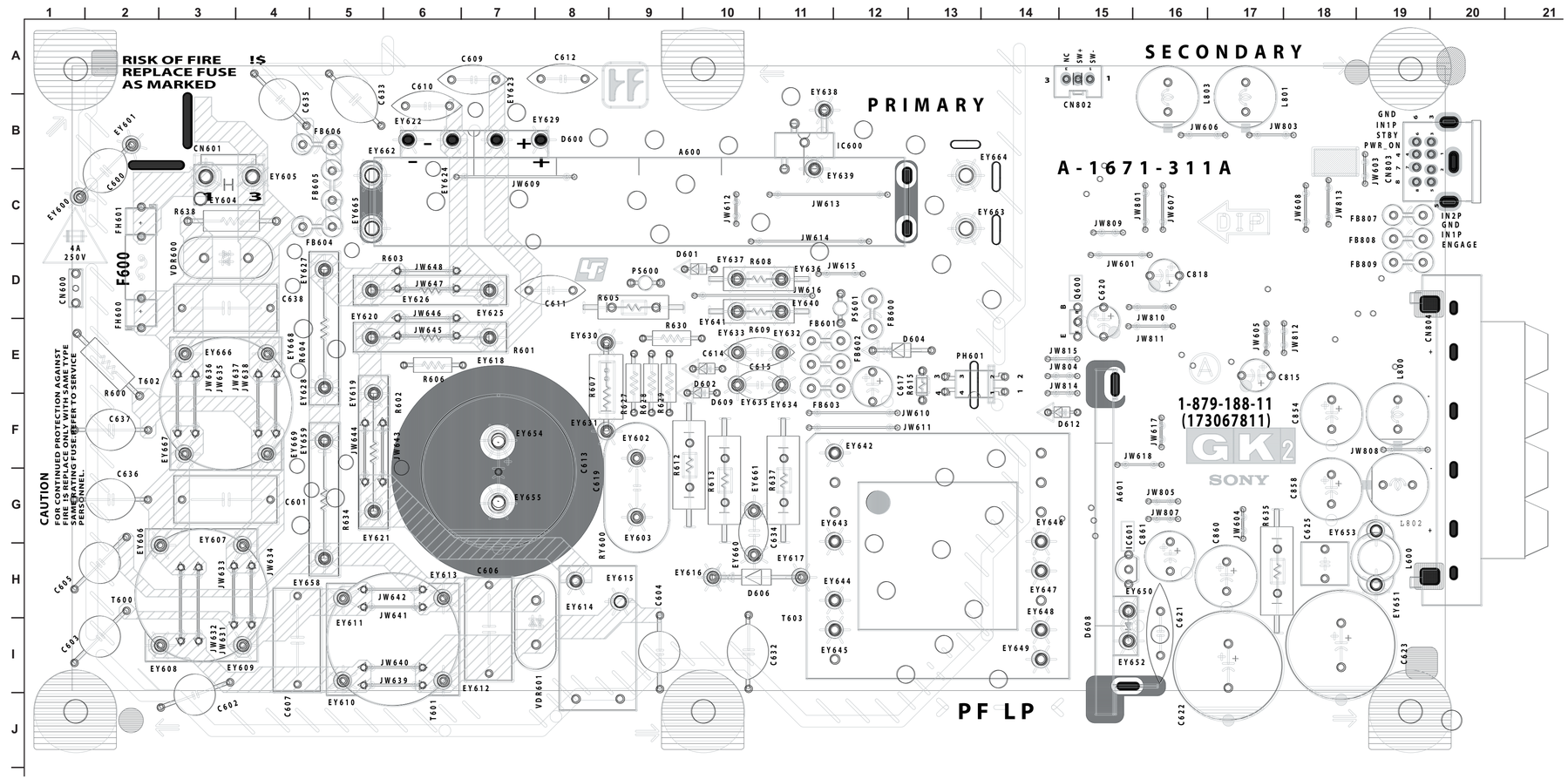
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

A B C D E F G H I J K L M N O P



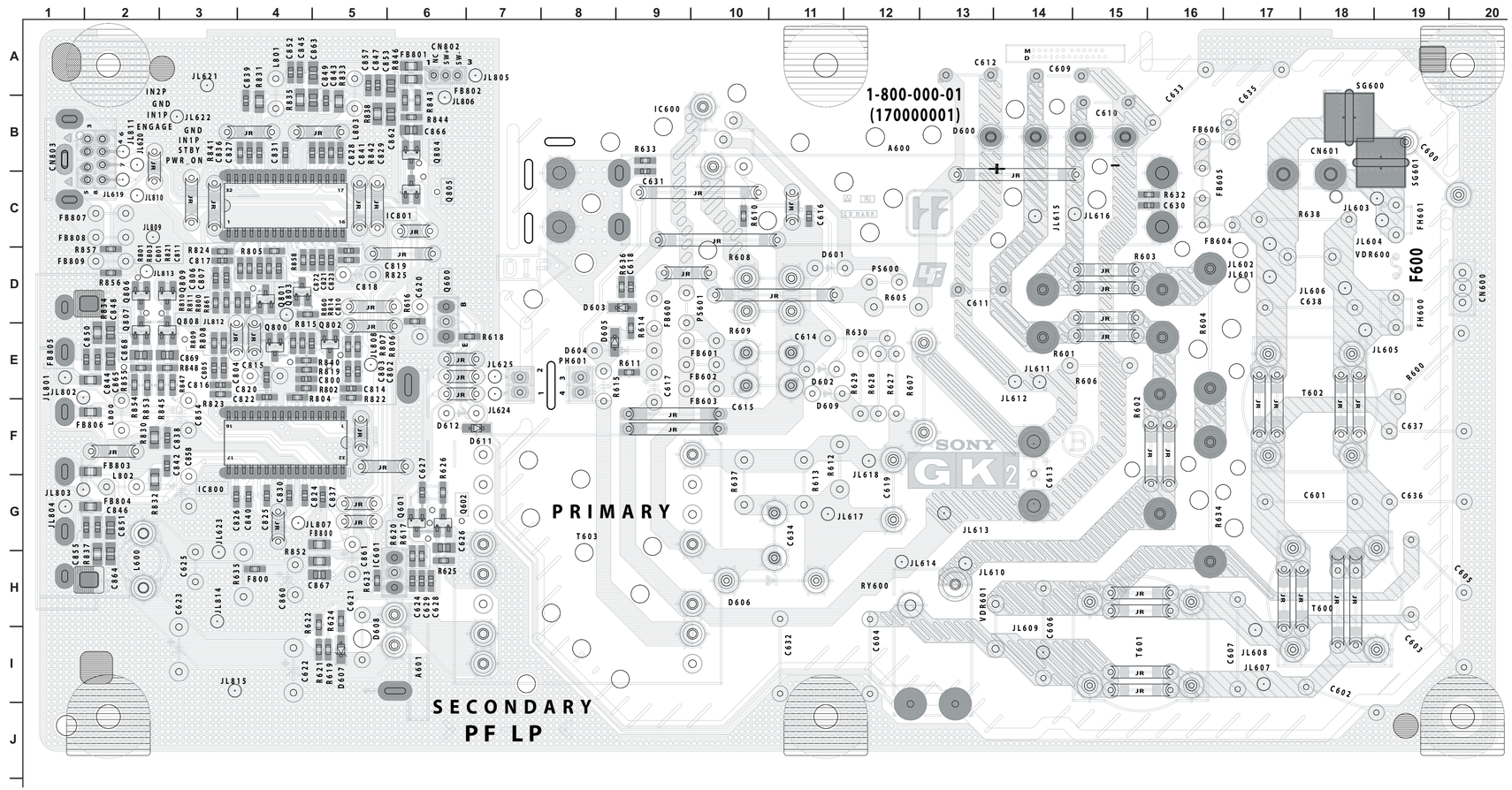
GK2 [SUBWOOFER POWER]

COMPONENT SIDE

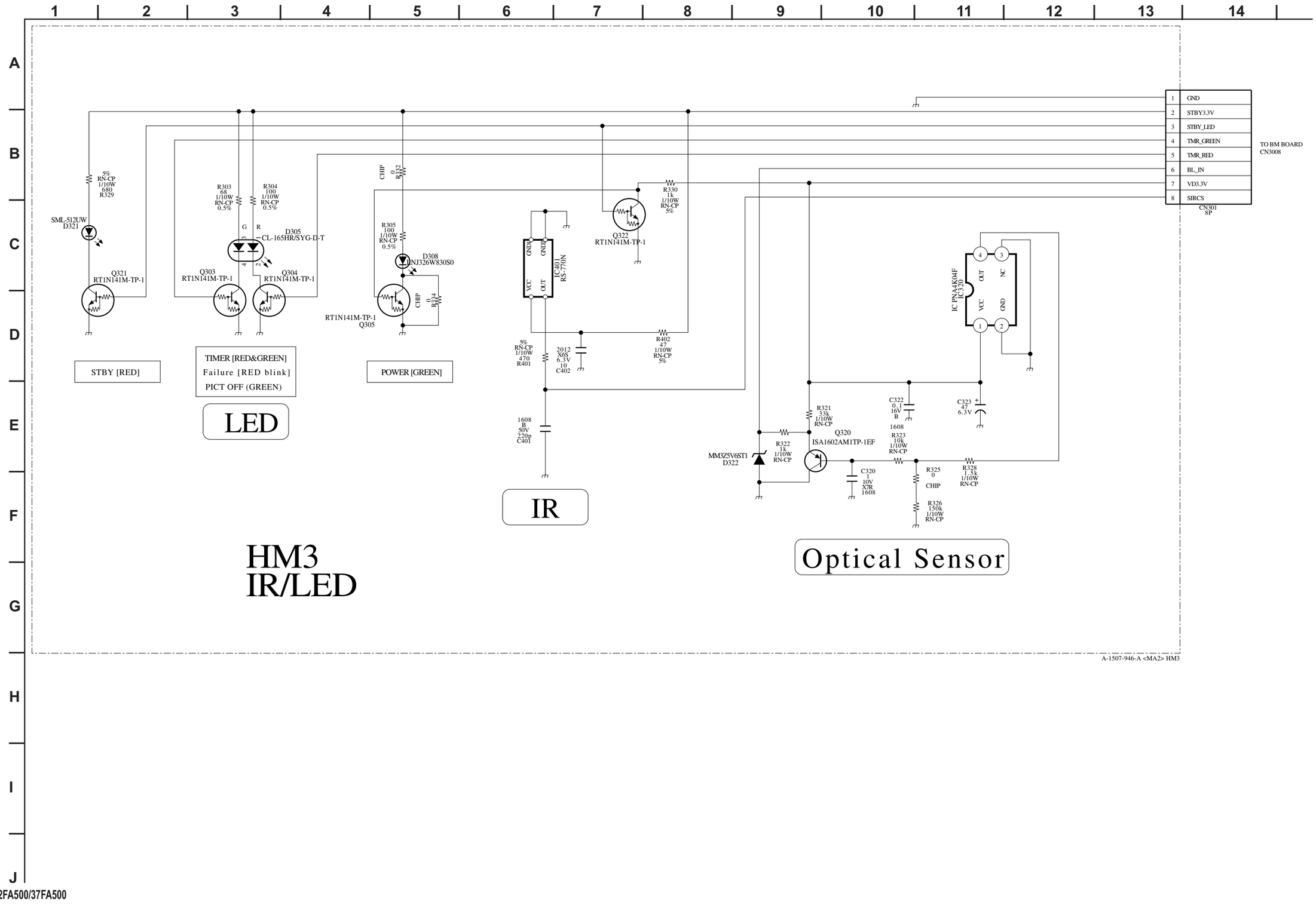


GK2 [SUBWOOFER POWER]

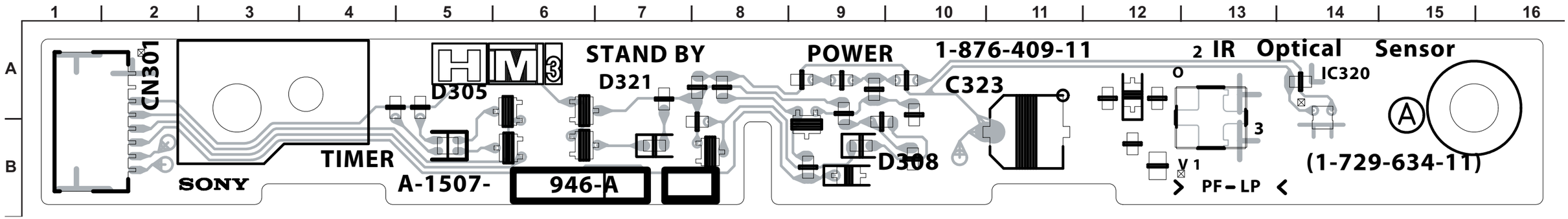
CONDUCTOR SIDE



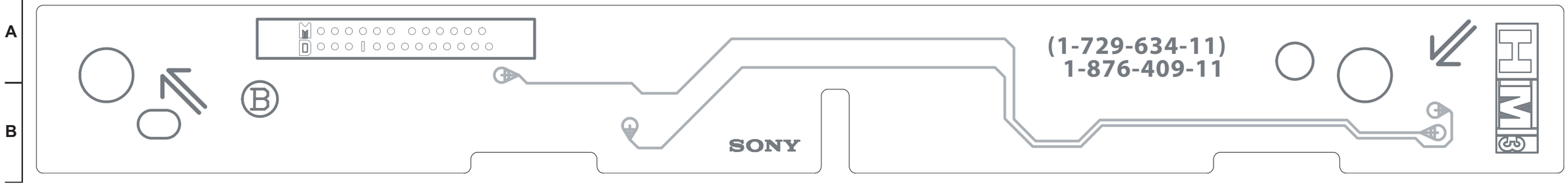
HM3 BOARD SCHEMATIC DIAGRAM



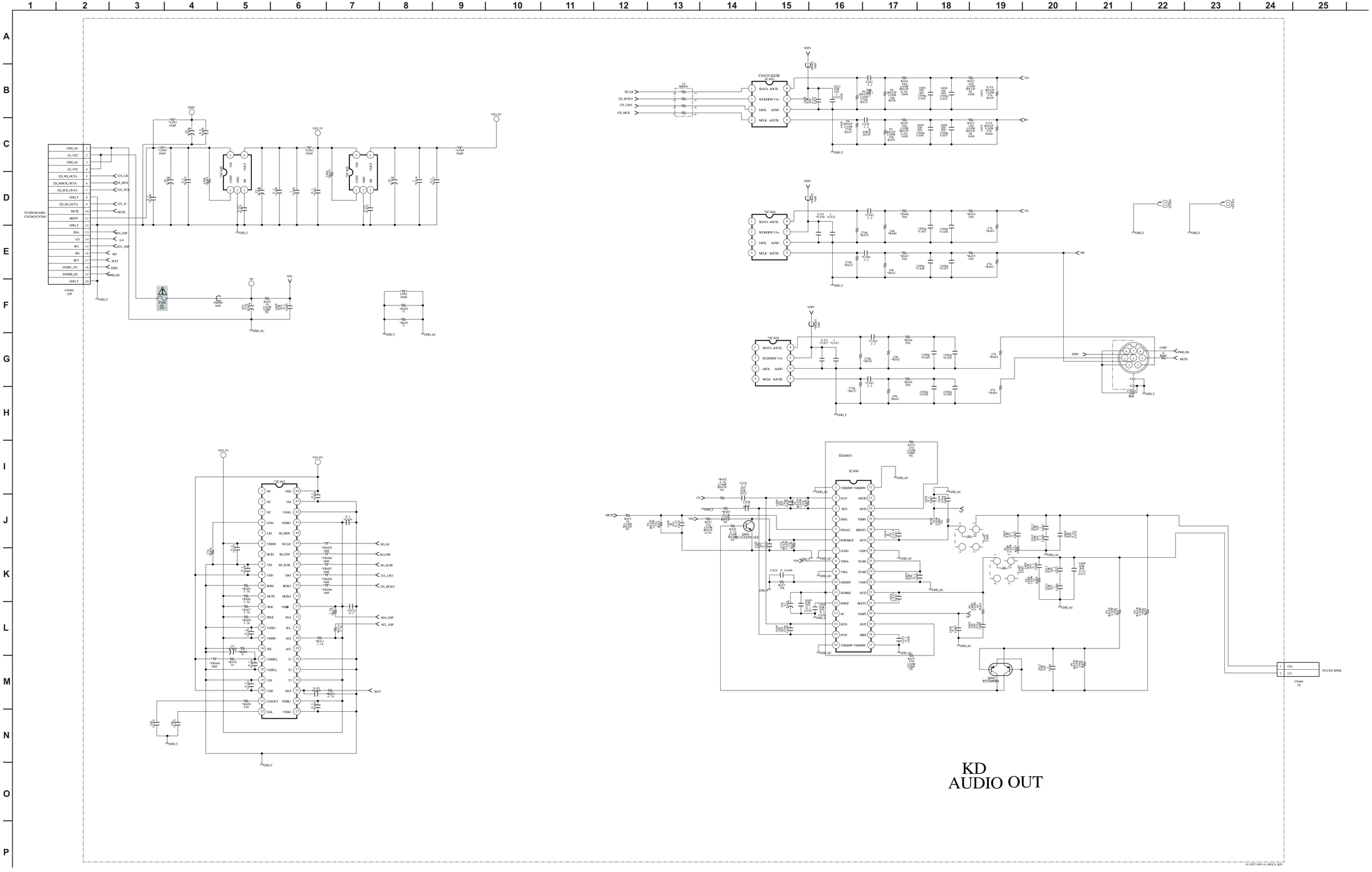
HM3 [IR LED, OPTICAL SENSOR]
COMPONENT SIDE



HM3 [IR LED, OPTICAL SENSOR]
CONDUCTOR SIDE



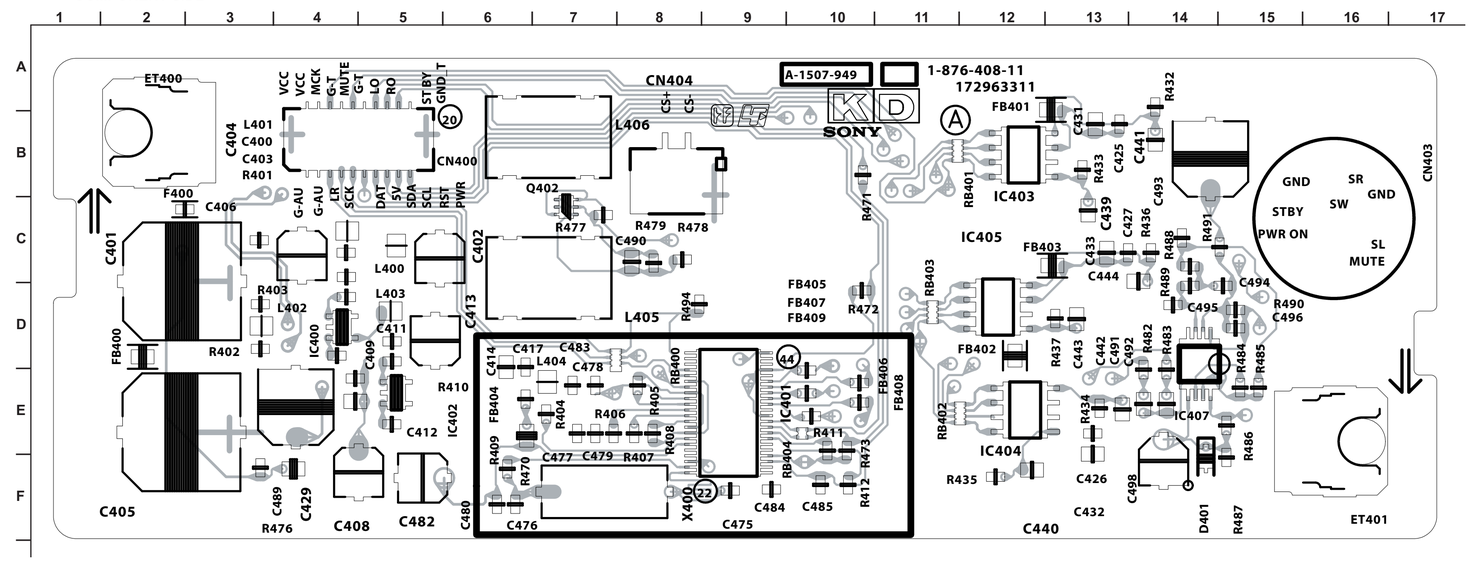
KD BOARD SCHEMATIC DIAGRAM



KD

[AUDIO OUT]

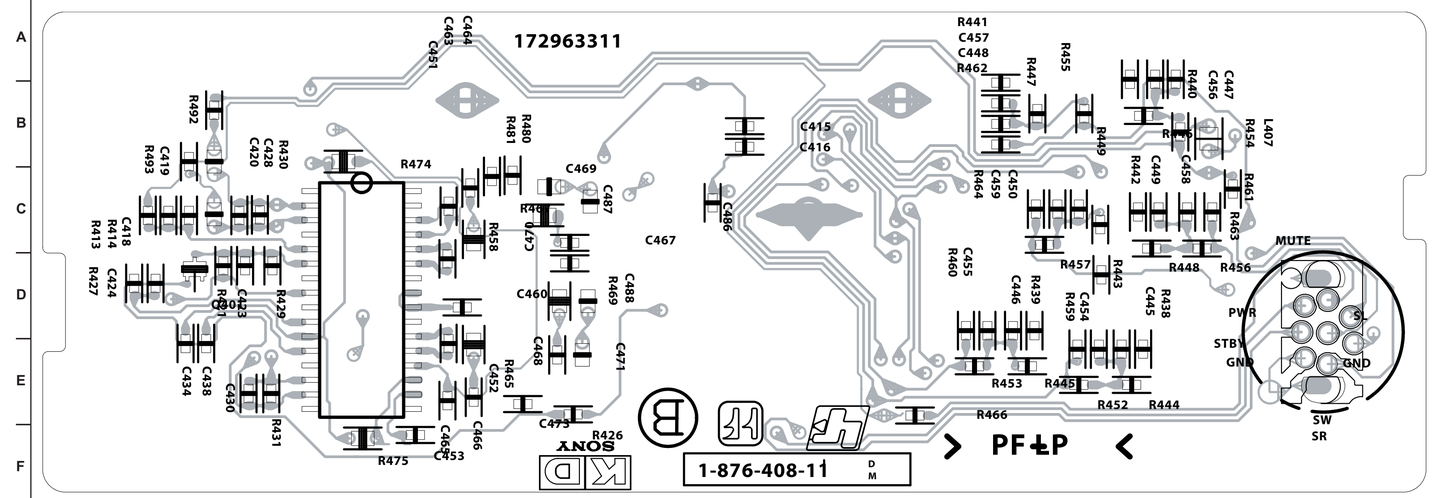
COMPONENT SIDE



KD

[AUDIO OUT]

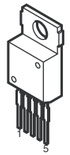
CONDUCTOR SIDE



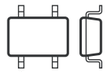
3-5. SEMICONDUCTORS

IC

BA00AST-V5

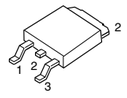


BA05FP-E2
BA09FP-E2
S-1111B33MC-NYSTFG
S-80928CNMC-G8YT2G
TC7SZ125FU(TE85R)

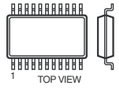


5Pin CHIP

BA18BC0FP-E2
BA25BC0FP-E2

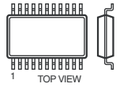


BR24L02F-WE2
CS4335-KSZR
FA5501N-TE1
LM75CIMX-3
M24128-BWMN6T(A)
M24C02-WMN6T(B)
NJM2521V(TE2)
NJM3414AV(TE2)
RC4558DR
RC4558PWR



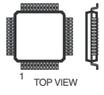
8Pin SOP

CD4052BNSR
FMS6418AM16X



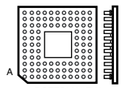
16Pin SOP

CXA2188Q-T4



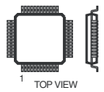
40Pin QFP

EM6A9320BI-5MG



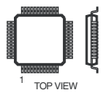
144Pin PGA

HD6433692A39FXV
HD64F3694FXV-DA4
TPA3004D2PHPR



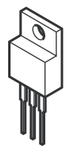
48Pin QFP

HD64F2378-12681-01

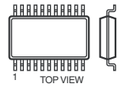


144Pin QFP

L88M05T-FA-TL

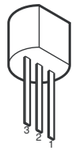


M52347FP-TE

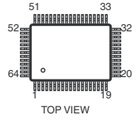


20Pin SOP

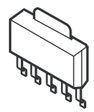
MM1431ATT



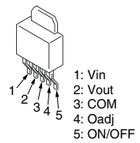
NJW1149AFH1



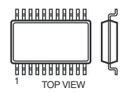
PQ1CY1032ZP



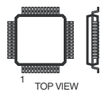
PQ1CZ41H2ZPH



RV5C387A-E2-FB

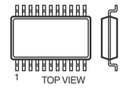


SII9993CTG100



100Pin QFP

SN74LV132APWR
SN74LVC14APWR

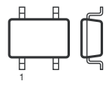


14Pin SOP

STR-A6169

8Pin DIP

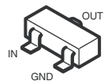
TK11819MTL



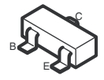
6Pin CHIP

TRANSISTOR

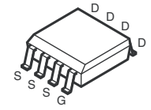
DTC114EU
DTC114EUAFT106



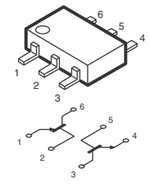
DTC114EUA-T106
DTC115EUA-T106
DTC144WKA-T146
DTC314TK-T-146
DTC323TK
DTC323TKT146
MUN2211T1
MUN2212T1
MUN5213T1
PDTC114EK-115
UN2211
2PA1576R-115
2PC4081R-115
2PD601AR-115
2SA1037AK-T146-QR
2SA1037AK-T146-R
2SA1576A-T106-QR
2SA1774R
2SA1774TL-QR
2SC1623-L5L6
2SC2412K-T-146-QR
2SC4081-R
2SC4081T106R
2SC4617R
2SC4617TL-QR
2SD2114K
2SD601A-Q-TX



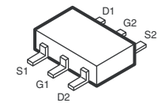
FDS6690A



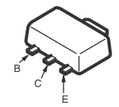
HN1B01FU-TE85R



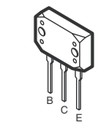
SSM6N15FU(TE85R)



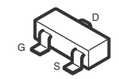
2SB1122-S
2SB1122-ST-TD-E
2SD1621-ST
2SD1621ST-TD-E



2SD2114KT146

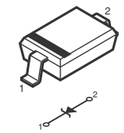


2SK2158-T2B

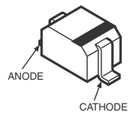


DIODE

BAS316-115
EP05FA20
MM3Z10VT1
MM3Z11VT1
MM3Z13VT1
MM3Z18VST1
MM3Z22VT1
MM3Z2V4T1
MM3Z5V6ST1
MM3Z6V2ST1
MM3Z6V8ST1
MM3Z8V2ST1



BAT54HT1
DTZ10B
HZU5.6GTRF
MA113-(TX)
MMDL914T1
RD5.6SB-T1
UDZ-TE-17-18B
UDZ-TE-17-6.2B
UDZ-TE-17-6.8B



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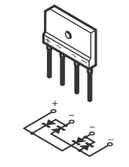
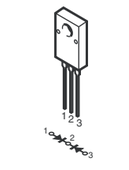
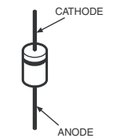
D10SBS4F
D2SB60A-F04
D4SB60L



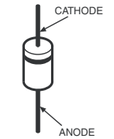
D10SC6M



D1NL40-TA2
D1NL40-TR2
ERA22-08

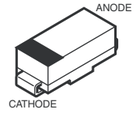


D1NS6
D1NS6-TR
ERA22-06AVRBT
UF4005PKG23
10ERB20-TB3
1N5404TU

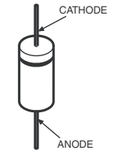


EC10QS-04
EC10QS04-TE12L5

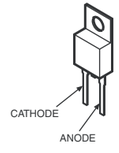
EC21QS03L-TE12L
P6SMBJ30A-5
PTZ-TE25-3.9B



ERA22-08KFLB



FSF05A60



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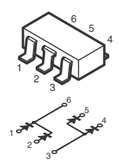
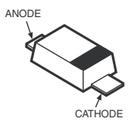
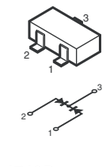
HN1D03FU-TE85R



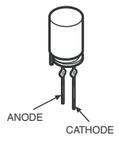
M1FM3



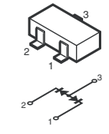
MA132WK
MA132WK-TX
MA151WK-TX
1SS184



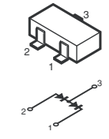
UDZSTE-1710B



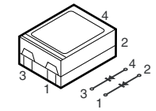
UMZ16NT106



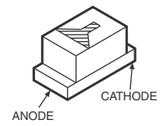
1PS302



SML-020MVT-T86



SML-310LTT86



SECTION 4: EXPLODED VIEWS

Components not identified by a part number or description are not stocked because they are seldom required for routine service.

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

The component parts of an assembly are indicated by the reference numbers in the far right column of the parts list and within the dotted lines of the diagram.

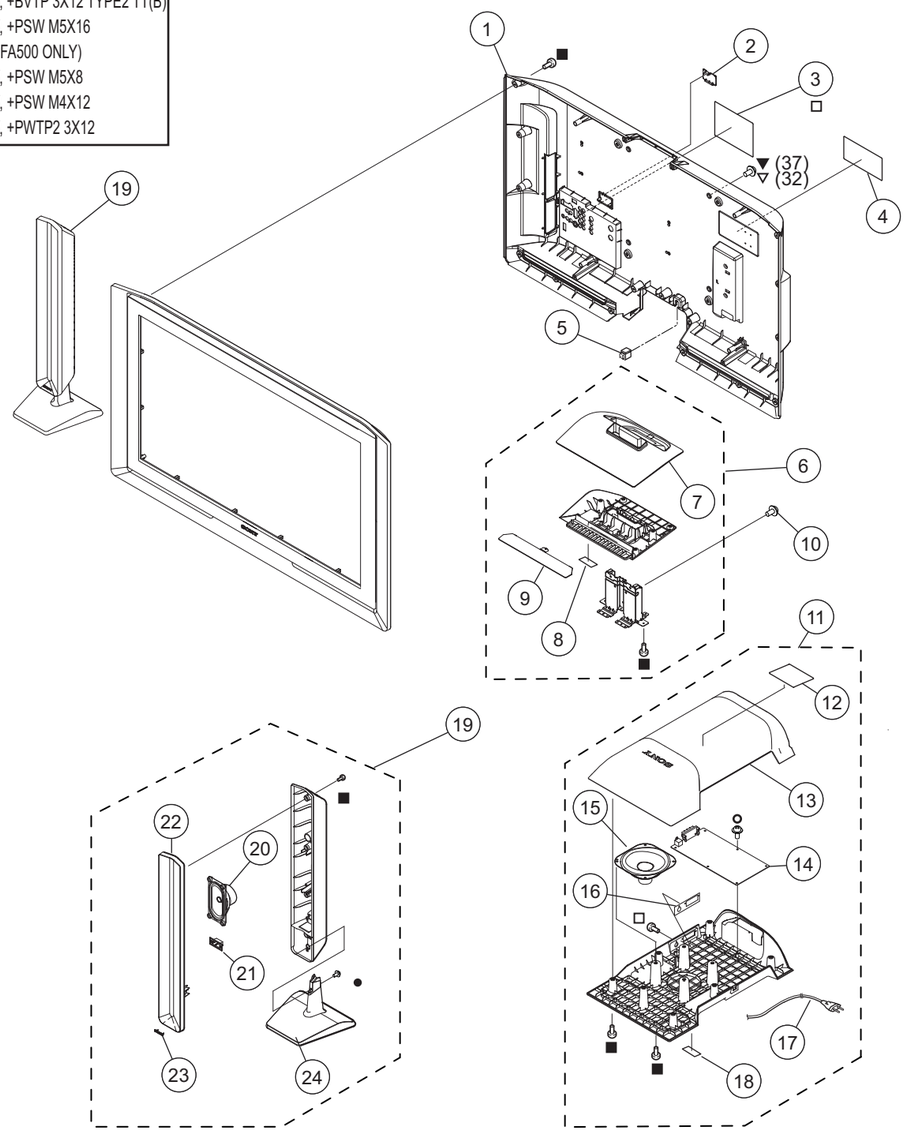
* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-1. REAR COVER ASSEMBLY, TABLE-TOP STAND, SUBWOOFER STAND ASSEMBLY AND SATELLITE SPEAKER ASSEMBLY

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

■	2-580-640-01	SCREW, +BVTP2 4X16
□	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 TT(B)
▼	2-580-608-01	SCREW, +PSW M5X16 (KDL-37FA500 ONLY)
▽	2-580-606-01	SCREW, +PSW M5X8
●	2-580-602-01	SCREW, +PSW M4X12
○	2-580-649-01	SCREW, +PWTP2 3X12



	REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
	1	3-282-255-11	COVER, REAR (32) (KDL-32FA500 ONLY)	
	1	3-282-262-11	COVER, REAR (37) (KDL-37FA500 ONLY)	
	2	3-196-465-11	COVER, ECS	
	3	3-295-208-21	LABEL, TERMINAL (REAR)	
*	4	4-139-267-01	LABEL, INFORMATION (KDL-32FA500 CHILE MODELS ONLY)	
*	4	4-132-708-01	LABEL, INFORMATION (KDL-32FA500 LATIN AMERICAONLY)	
*	4	4-139-268-01	LABEL, INFORMATION (KDL-37FA500 CHILE MODELS ONLY)	
*	4	4-132-710-01	LABEL, INFORMATION (KDL-37FA500 LATIN AMERICA MODELS ONLY)	
	5	4-022-115-00	HOLDER, AC CORD	
	6	A-1727-624-A	TABLE-TOP STAND ASSEMBLY (32) (KDL-32FA500 ONLY)	[7-9]
	6	A-1727-625-A	TABLE-TOP STAND ASSEMBLY (37) (KDL-37FA500 ONLY)	[7-9]
	7	4-123-057-01	COVER, TOP (STD)	
	8	3-295-631-01	FOOT (15X20)	
	9	4-123-063-01	ORNAMENTAL, STAND	
	10	2-580-606-01	SCREW, +PSW M5X8 (SCREWS TO ATTACH SUBWOOFER (TABLE-TOP STAND) TO TV) For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV. CAUTION: These screws cannot be used to secure the TV to Wall Mount Brackets.	
	11	A-1706-825-A	SUBWOOFER STAND ASSEMBLY (CHILE MODELS ONLY)	[12-18]
	11	A-1675-799-A	SUBWOOFER STAND ASSEMBLY (LATIN AMERICA MODELS ONLY)	[12-18]
*	12	4-146-003-01	LABEL, INFORMATION (SW) (CHILE MODELS ONLY)	
*	12	4-132-709-01	LABEL, INFORMATION (SW) (LATIN AMERICA MODELS ONLY)	
	13	4-123-056-01	COVER, BACK	
	14	A-1671-314-A	GK2 (VAR) BOARD, MOUNTED (CHILE MODELS ONLY)	
	14	A-1671-312-A	GK2 (VAR) BOARD, MOUNTED (LATIN AMERICA MODELS ONLY)	
	15	1-858-168-11	LOUDSPEAKER (13CM)	
	16	4-144-877-01	CUSHION, GK SEAL	
⚠	17	1-835-923-11	AC POWER CORD (WITH CONNECTOR) (LATIN AMERICA MODELS ONLY)	
⚠	17	1-835-326-11	AC POWER CORD (WITH CONNECTOR) (CHILE MODELS ONLY)	
	18	3-295-631-01	FOOT (15X20)	
	19	A-1675-801-A	SATELLITE SPEAKER ASSEMBLY	[20-24]
	20	1-858-208-11	LOUDSPEAKER (6X12CM)	
	21	1-780-631-11	PUSH TERMINAL (2P)	
	22	X-2348-286-1	FRONT COVER ASSEMBLY (SS)	
	23	4-217-485-21	EMBLEM (5-A), SONY	
	24	A-1727-623-A	SATELLITE SPEAKER STAND ASSEMBLY	

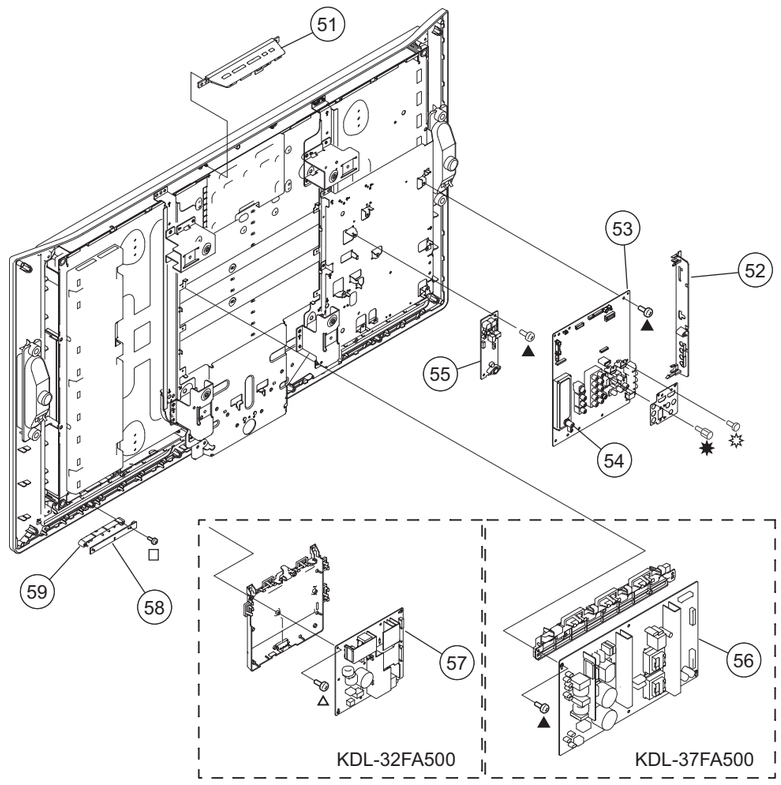
NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-2. CHASSIS

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)
▲	2-580-629-01	SCREW, +BVST 3X8
△	2-674-965-31	SCREW, +PSW 3SG (KDL-32FA500 ONLY)
✸	4-635-966-01	SCREW (HEX)
✲	2-580-591-01	SCREW, +PSW M3X5



REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
51	1-480-688-11	SWITCH UNIT (CONTAINS HB1 BOARD)
52	3-284-291-02	BRACKET, SIDE JACK(C)
🔒 53	A-1728-741-A	BM4 BOARD, MOUNTED (KDL-32FA500 ONLY)
🔒 53	A-1728-742-A	BM4 BOARD, MOUNTED (KDL-37FA500 ONLY)
54	8-597-661-00	TUNER, FSS BTF-CA422T
55	A-1507-950-A	KD (VAR) BOARD, MOUNTED

REF. NO.	PART NO.	DESCRIPTION [ASSEMBLY INCLUDES]
56	1-474-099-12	G1D BOARD, COMPLETE (POWER UNIT) (KDL-32FA500 ONLY)
57	1-474-095-12	G2D BOARD, COMPLETE (POWER UNIT) (KDL-37FA500 ONLY)
58	A-1543-343-A	HM3 (VAR) BOARD, MOUNTED (KDL-32FA500 ONLY)
58	A-1543-344-A	HM3 (VAR) BOARD, MOUNTED (KDL-37FA500 ONLY)
59	3-285-524-02	GUIDE, LED

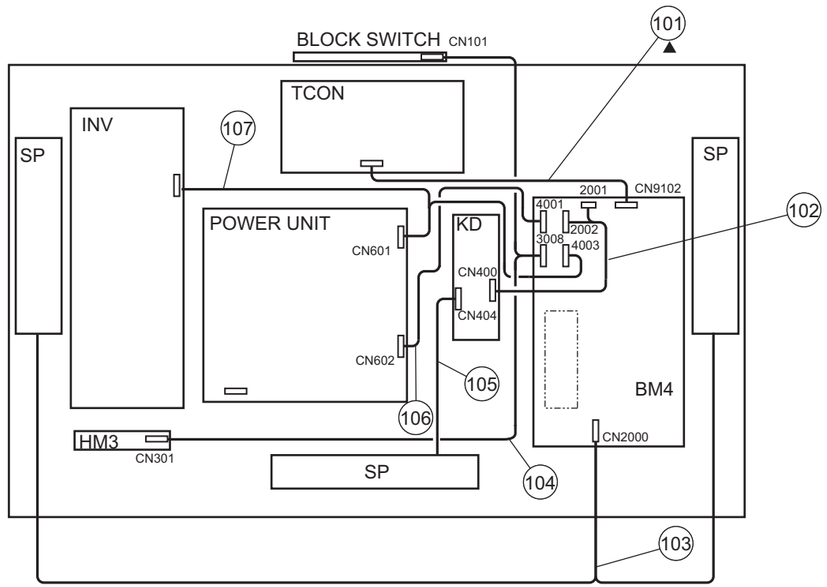
NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

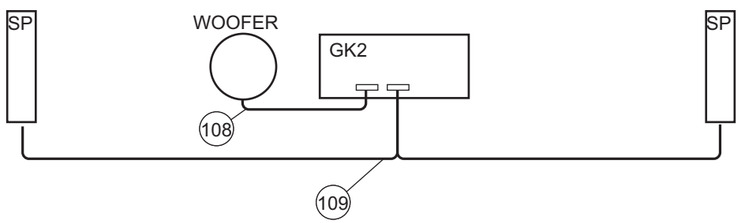
NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-3. CONNECTORS

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

▲	2-580-629-01	SCREW, +BVST 3X8





REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
☛101	N/A	(LVDS) LEAD WIRE WITH CONNECTOR	
		FOR ALL (LVDS) LEAD WIRE WITH CONNECTOR PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
102	1-910-044-81	CONN ASSEMBLY, 20P MM CRIMP 110	
103	1-910-044-79	CONN ASSEMBLY, 4P SPEAKER FASTON	(KDL-32FA500 ONLY)
103	1-910-044-84	CONN ASSEMBLY, 4P SPEAKER FASTON	(KDL-37FA500 ONLY)
104	1-910-049-10	CONN ASSEMBLY, 12P MM CRIMP 890	(KDL-32FA500 ONLY)
104	1-910-049-11	CONN ASSEMBLY, 12P MM CRIMP 1010	(KDL-37FA500 ONLY)
105	1-910-044-80	CONN ASSEMBLY, 2P SPEAKER FASTON	
106	1-910-044-86	CONN ASSEMBLY, 13P MM CRIMP 250	(KDL-32FA500 ONLY)
106	1-910-044-91	CONN ASSEMBLY, 13P MM CRIMP 220	(KDL-37FA500 ONLY)
☛107	N/A	CONN ASSEMBLY, 14P MM CRIMP 570	(KDL-32FA500 ONLY)
		FOR ALL CONN ASSEMBLY, 14P MM CRIMP 570 PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
☛107	N/A	CONN ASSEMBLY, 14P MM CRIMP 650	(KDL-37FA500ONLY)
		FOR ALL CONN ASSEMBLY, 14P MM CRIMP 650 PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
108	1-910-044-82	CONN ASSEMBLY, 3P SPEAKER FASTON	
109	1-836-204-11	8P MINI DIN CABLE	

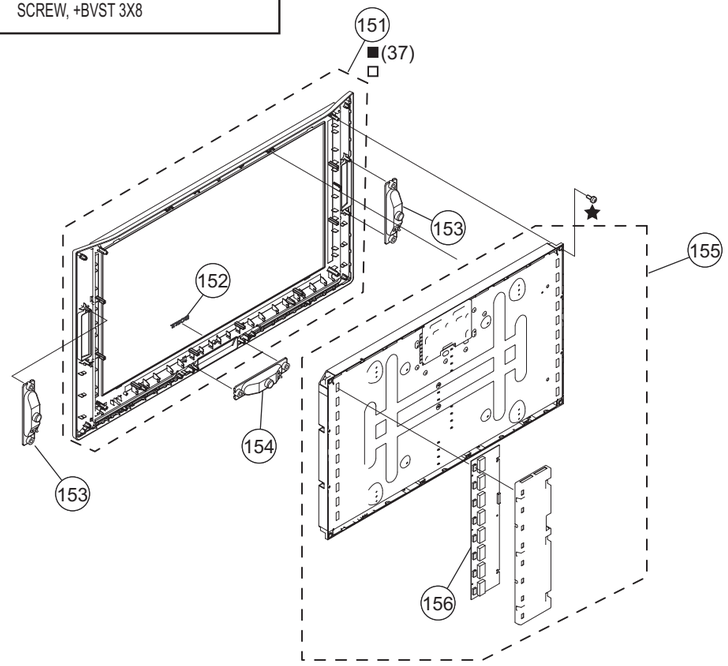
NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

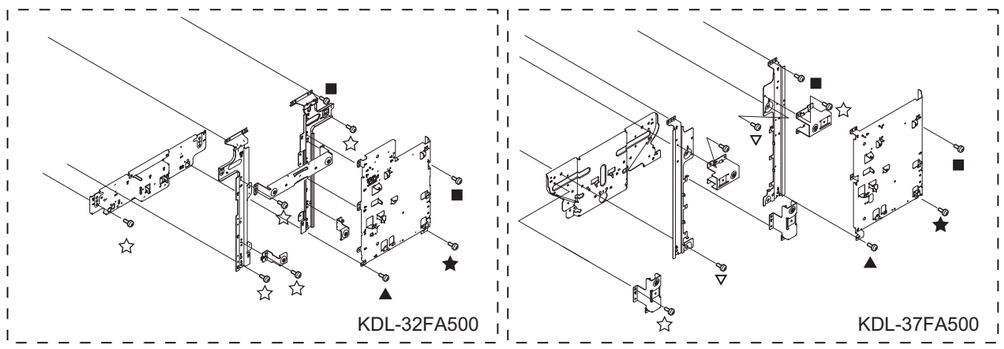
NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-4. BEZEL ASSEMBLY, LCD PANEL AND SPEAKERS

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

■	2-580-640-01	SCREW, +BVTP2 4X16
□	7-685-648-79	SCREW +BVTP 3X12 TYPE2 TT(B)
▽	2-580-606-01	SCREW, +PSW M5X8
☆	2-580-600-01	SCREW, +PSW M4X8
★	2-580-654-01	SCREW, +PWTP2 4X16
▲	2-580-629-01	SCREW, +BVST 3X8





REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
151	A-1675-628-A	BEZEL COMPLETE ASSEMBLY(32) (KDL-32FA500 ONLY)	[152]
151	A-1701-069-A	BEZEL COMPLETE ASSEMBLY(37) (KDL-37FA500 ONLY	[152]
152	4-103-642-21	EMBLEM, SONY NO.8	
153	1-826-883-12	LOUDSPEAKER (4.2X15CM)	
154	1-826-883-22	LOUDSPEAKER (4.2X15CM)	

REF. NO.	PART NO.	DESCRIPTION	[ASSEMBLY INCLUDES]
155	N/A	LCD PANEL (32INCH WXGA TFT) (KDL-32FA500 ONLY)	[156]
		FOR ALL LCD PANEL PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
155	N/A	LCD PANEL (37INCH WXGA TFT) (KDL-37FA500 ONLY	[156]
		FOR ALL LCD PANEL PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
156	N/A	ETC - INVERTER MT BOARD (KDL-32FA500 ONLY)	
		FOR ALL ETC-INVERTER MT BOARD PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	
156	N/A	ETC - INVERTER MT BOARD (KDL-37FA500 ONLY	
		FOR ALL ETC-INVERTER MT BOARD PART NUMBER INFORMATION REFER TO THE LCD PANELS SERVICE MANUAL	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

4-5. SCREW LEGEND

(Check the Sony Electronics Service Information website for any additional service related issues for this model.)

KDL-32FA500

	P/N	DESCRIPTION	REMARKS	TOTAL
■	2-580-640-01	SCREW, +BVTP2 4X16	REAR COVER-20 MAIN BRKT-2 UNDER COVER-2 SPINE L-1 SPINE R-1 LCD-3 SUBWOOFER-11 STAND-15	59
□	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 TT(B)	BEZEL ASSY-4 HM3-2 RC TERMINAL-2 GK2-3	11
▼	2-580-608-01	SCREW, +PSW M5X16	(none)	0
▽	2-580-606-01	SCREW, +PSW M5X8	RC-1 TABLE-TOP STAND-4	5
●	2-580-602-01	SCREW, +PSW M4X12	SS-1	1
☆	2-580-600-01	SCREW, +PSW M4X8	BOTTOM FRAME-4 VESA BOTTOM-2 VESA TOP-2 SPINE-R-3 SPINE-L-2 PANEL-4	17
★	2-580-654-01	SCREW, +PWTP2 4X16	PANEL CENTER CAB-3 MAIN BRKT-1	4
○	2-580-649-01	SCREW, +PWTP2 3X12	GK2-6	6
▲	2-580-629-01	SCREW, +BVST 3X8	MAIN BRACKET-4 LVDS-1 KD-2 BM4-7	14
△	2-674-965-31	SCREW, +PSW 3SG	G1-4	4
✸	4-635-966-01	SCREW (HEX)	TERMINAL-2	2
✡	2-580-591-01	SCREW, +PSW M3X5	TERMINAL-2	2

KDL-37FA500

	P/N	DESCRIPTION	REMARKS	TOTAL
■	2-580-640-01	SCREW, +BVTP2 4X16	BEZEL ASSY-1 MAIN BRACKET-2 RC-20 SUBWOOFER-11 SS-4 STAND-15 UC-2 SPINE-L-1 SPINE-R-1	57
□	7-685-648-79	SCREW, +BVTP 3X12 TYPE2 TT(B)	BEZEL ASSY-4 HM3-2 RC TERMINAL-2 GK2-3	11
▼	2-580-608-01	SCREW, +PSW M5X16	RC-4	4
▽	2-580-606-01	SCREW, +PSW M5X8	TABLE-TOP STAND-4 SPINE-L-3 SPINE-R-3	10
●	2-580-602-01	SCREW, +PSW M4X12	SS-1	1
☆	2-580-600-01	SCREW, +PSW M4X8	VESA BOTTOM-6 VESA TOP-4	10
★	2-580-654-01	SCREW, +PWTP2 4X16	PANEL-3 MAIN BRKT-1	4
○	2-580-649-01	SCREW, +PWTP2 3X12	GK2-6	6
▲	2-580-629-01	SCREW, +BVST 3X8	G2-6 MAIN BRACKET-3 LVDS-1 KD-2 BM4-7	19
△	2-674-965-31	SCREW, +PSW 3SG	(none)	0
✸	4-635-966-01	SCREW (HEX)	TERMINAL-2	2
✡	2-580-591-01	SCREW, +PSW M3X5	TERMINAL-2	2

SECTION 5: ELECTRICAL PARTS LIST

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

* Items marked with an asterisk are not stocked since they are seldom required for routine service. Expect some delay when ordering these components.

NOTE: The components identified by a red outline and a 🔒 mark contain confidential information. Specific instructions must be adhered to whenever these components are repaired and/or replaced.
See Appendix A: Encryption Key Components in the back of this manual.

RESISTORS
- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

BM4

When ordering parts by reference number, please include the board name.

BM4

REF. NO.	PART NO.	DESCRIPTION	VALUES
🔒	A-1728-741-A	BM4 BOARD, MOUNTED (KDL-32FA500 ONLY)	
🔒	A-1728-742-A	BM4 BOARD, MOUNTED (KDL-37FA500 ONLY)	
	3-875-182-01	SHEET, RADIATION	
	CONTACT TERMINAL		
A7301	1-694-974-21	CONTACT TERMINAL	
A7302	1-694-974-21	CONTACT TERMINAL	
A7304	1-694-974-21	CONTACT TERMINAL	
	CAPACITOR		
C1004	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1006	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1007	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1019	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1020	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1021	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1022	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1023	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1024	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C1025	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C1026	1-100-766-21	ELECT CHIP	47µF 20% 16V
C1027	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C1028	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C1029	1-100-766-21	ELECT CHIP	47µF 20% 16V
C1053	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1103	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1104	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1123	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1124	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1208	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1209	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1212	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C1213	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1214	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1215	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C1223	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C1224	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C1226	1-100-767-21	ELECT CHIP	220µF 20% 16V
C1227	1-100-767-21	ELECT CHIP	220µF 20% 16V
C1230	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C1231	1-112-777-11	CERAMIC CHIP	0.01µF 10% 25V
C1301	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C1302	1-112-777-11	CERAMIC CHIP	0.01µF 10% 25V
C1303	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C1304	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C1305	1-164-874-11	CERAMIC CHIP	100pF 5% 50V
C1736	1-216-296-11	SHORT CHIP	
C1739	1-216-296-11	SHORT CHIP	
C1742	1-216-296-11	SHORT CHIP	
C1754	1-216-296-11	SHORT CHIP	
C1755	1-114-482-11	ELECT CHIP	1000µF 20% 6.3V
C1758	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1759	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1760	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1761	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1762	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1763	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1764	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1765	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1766	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1767	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1768	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C1769	1-164-866-11	CERAMIC CHIP	47pF 5% 50V
C2000	1-126-395-11	ELECT CHIP	22µF 20% 16V
C2069	1-112-064-11	CERAMIC CHIP	2.2µF 10% 10V

BM4

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2070	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2073	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2077	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2081	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C2084	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C2086	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C2090	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2091	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2092	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2095	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2098	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2100	1-135-366-11	ELECT CHIP	100µF	20%	16V
C2107	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2130	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2131	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2134	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2135	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2140	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2141	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2142	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2143	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2144	1-164-874-11	CERAMIC CHIP	100pF	5%	50V
C2145	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C2146	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C2149	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2150	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2156	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2157	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2158	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2159	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C2160	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C2161	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C2170	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V
C2171	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V
C2172	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2173	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2174	1-135-366-11	ELECT CHIP	100µF	20%	16V
C2175	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2176	1-100-764-21	ELECT CHIP	4.7µF	20%	25V
C2177	1-100-764-21	ELECT CHIP	4.7µF	20%	25V
C2178	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2179	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2180	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2181	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2182	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2183	1-100-765-21	ELECT CHIP	10µF	20%	16V
C2185	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2186	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2195	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2196	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2197	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2198	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C2199	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C2200	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2201	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2204	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2205	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2206	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2207	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2208	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2209	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2210	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2211	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2212	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2213	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2214	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2215	1-164-938-11	CERAMIC CHIP	0.0015µF	10%	50V
C2216	1-100-756-91	CERAMIC CHIP	0.047µF	10%	50V
C2217	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2218	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2221	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2223	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2225	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2226	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2227	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C2228	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V
C2229	1-162-979-11	CERAMIC CHIP	0.0027µF	10%	50V
C2231	1-100-766-21	ELECT CHIP	47µF	20%	16V
C2232	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C2233	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C2234	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C2236	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2237	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2238	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2239	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C2240	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2241	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2242	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2243	1-164-230-11	CERAMIC CHIP	220pF	5%	50V
C2244	1-162-923-11	CERAMIC CHIP	47pF	5%	50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C2245	1-162-925-11	CERAMIC CHIP	68pF	5%	50V
C2246	1-165-112-11	CERAMIC CHIP	0.33µF		16V
C2247	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C2248	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C2251	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C2252	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C2255	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2256	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2257	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2258	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C2259	1-165-818-91	CERAMIC CHIP	0.68µF	10%	25V
C2260	1-165-818-91	CERAMIC CHIP	0.68µF	10%	25V
C2261	1-165-818-91	CERAMIC CHIP	0.68µF	10%	25V
C2262	1-165-818-91	CERAMIC CHIP	0.68µF	10%	25V
C2263	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C2264	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C2265	1-115-340-11	CERAMIC CHIP	0.22µF	10%	25V
C2266	1-110-648-11	ELECT CHIP	220µF	20%	25V
C2267	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C2268	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C2271	1-110-648-11	ELECT CHIP	220µF	20%	25V
C2272	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
C3005	1-114-353-11	CAP, CERAMIC	0.01MF X7R (1410)		
C3007	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C3010	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3011	1-114-343-11	ELECT CHIP	100µF	20%	6.3V
C3019	1-162-912-11	CERAMIC CHIP	7pF	0.50pF	50V
C3020	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C3057	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3062	1-112-066-11	CERAMIC CHIP	10µF	10%	10V
C3063	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3066	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3070	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C3072	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C3076	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C3081	1-112-066-11	CERAMIC CHIP	10µF	10%	10V
C3083	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3084	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C3110	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3112	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C3113	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C3114	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C3115	1-164-858-11	CERAMIC CHIP	22pF	5%	50V
C3116	1-164-858-11	CERAMIC CHIP	22pF	5%	50V
C3118	1-100-765-21	ELECT CHIP	10µF	20%	16V
C3119	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C3121	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4001	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4030	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C4033	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C4034	1-114-331-11	CERAMIC CHIP	4.7µF	10%	10V
C4040	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C4049	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C5207	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C5208	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C5211	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5214	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5215	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5217	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5219	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C5220	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5221	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C5222	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5223	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5224	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5225	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5226	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5264	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5265	1-112-066-11	CERAMIC CHIP	10µF	10%	10V
C5801	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C5802	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5803	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5804	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5805	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5806	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5807	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5808	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5809	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5810	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5811	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5812	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5813	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5814	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5815	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C5816	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C5817	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5818	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C5819	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C5820	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5821	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C5822	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5824	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5825	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5826	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5827	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C5828	1-100-765-21	ELECT CHIP	10µF	20%	16V
C5829	1-100-765-21	ELECT CHIP	10µF	20%	16V
C5830	1-100-765-21	ELECT CHIP	10µF	20%	16V
C5831	1-100-765-21	ELECT CHIP	10µF	20%	16V
C7000	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7001	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7002	1-135-366-11	ELECT CHIP	100µF	20%	16V
C7003	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C7004	1-135-366-11	ELECT CHIP	100µF	20%	16V
C7005	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7006	1-110-648-11	ELECT CHIP	220µF	20%	25V
C7008	1-112-065-11	CERAMIC CHIP	4.7µF	10%	16V
C7010	1-112-065-11	CERAMIC CHIP	4.7µF	10%	16V
C7012	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7019	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7020	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7028	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7030	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C7031	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7032	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7033	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7034	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7035	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7036	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7039	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7040	1-100-421-21	ELECT CHIP	220µF	20%	6.3V
C7041	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7042	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7043	1-100-421-21	ELECT CHIP	220µF	20%	6.3V
C7044	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7045	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7046	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C7047	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7048	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7050	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7051	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7052	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7054	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7055	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7056	1-100-421-21	ELECT CHIP	220µF	20%	6.3V
C7057	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7058	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7060	1-100-421-21	ELECT CHIP	220µF	20%	6.3V
C7061	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7062	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C7065	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C7067	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C7069	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C7108	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7109	1-114-553-11	CERAMIC CHIP	10µF	10%	16V
C7110	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7111	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7112	1-112-775-11	CERAMIC CHIP	0.0022µF	10%	50V
C7113	1-164-870-11	CERAMIC CHIP	68pF	5%	50V
C7114	1-100-055-11	CERAMIC CHIP	22µF	20%	16V
C7115	1-100-055-11	CERAMIC CHIP	22µF	20%	16V
C7200	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7201	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7203	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C7204	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7207	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7208	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7210	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7211	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C7212	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C7213	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7214	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7215	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7216	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7218	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7219	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7221	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7222	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7223	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7224	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7225	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C7227	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7229	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7230	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7231	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C7234	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7235	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C7238	1-114-130-11	CERAMIC CHIP	1µF	10%	6.3V
C7239	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7240	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		

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REF. NO.	PART NO.	DESCRIPTION	VALUES
C7241	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)
C7244	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7245	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7247	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7248	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)
C7249	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7250	1-112-786-11	ELECT CHIP	330µF 20% 4V
C7251	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7254	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7257	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7258	1-114-332-11	CERAMIC CHIP	22µF 10% 6.3V
C7259	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7260	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7262	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7264	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7265	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7266	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7268	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7269	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7271	1-114-331-11	CERAMIC CHIP	4.7µF 10% 10V
C7273	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7279	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7283	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7284	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7285	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7289	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7290	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7291	1-164-854-11	CERAMIC CHIP	15pF 5% 50V
C7292	1-164-860-11	CERAMIC CHIP	27pF 5% 50V
C7293	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C7296	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7298	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7299	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7300	1-135-366-11	ELECT CHIP	100µF 20% 16V
C7301	1-114-331-11	CERAMIC CHIP	4.7µF 10% 10V
C7305	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7307	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7309	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7310	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7311	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7312	1-131-956-21	ELECT CHIP	220µF 20% 4V
C7313	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7314	1-114-320-11	CERAMIC CHIP	0.22µF 10% 6.3V
C7316	1-114-332-11	CERAMIC CHIP	22µF 10% 6.3V
C7317	1-112-786-11	ELECT CHIP	330µF 20% 4V
C7318	1-164-850-11	CERAMIC CHIP	10pF 0.50pF 50V
C7400	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7401	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7402	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7403	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7404	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7405	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7406	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7407	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7408	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7409	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7410	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7411	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7412	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7413	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7414	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7415	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7416	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7417	1-114-332-11	CERAMIC CHIP	22µF 10% 6.3V
C7418	1-114-332-11	CERAMIC CHIP	22µF 10% 6.3V
C7419	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7420	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7421	1-114-130-11	CERAMIC CHIP	1µF 10% 6.3V
C7422	1-112-777-11	CERAMIC CHIP	0.01µF 10% 25V
C7425	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7503	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7504	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)
C7506	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7507	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
C7520	1-135-366-11	ELECT CHIP	100µF 20% 16V
C7521	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7525	1-135-366-11	ELECT CHIP	100µF 20% 16V
C7530	1-112-066-11	CERAMIC CHIP	10µF 10% 10V
C7535	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7539	1-112-777-11	CERAMIC CHIP	0.01µF 10% 25V
C7560	1-112-066-11	CERAMIC CHIP	10µF 10% 10V
C7600	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7601	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7602	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7603	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7604	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7605	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7606	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V
C7607	1-100-916-11	CERAMIC CHIP	0.1µF 10% 16V
C7608	1-100-905-11	CERAMIC CHIP	0.001µF 10% 50V

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
C7609	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7611	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7613	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7615	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7616	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7617	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7618	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C7622	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7623	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7626	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7627	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7628	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C7630	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7631	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7632	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7633	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7634	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7635	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7636	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7637	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7638	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7642	1-218-990-81	SHORT CHIP			
C7643	1-218-990-81	SHORT CHIP			
C7644	1-218-990-81	SHORT CHIP			
C7645	1-218-990-81	SHORT CHIP			
C7647	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7648	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7649	1-114-331-11	CERAMIC CHIP	4.7µF	10%	10V
C7655	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7658	1-114-320-11	CERAMIC CHIP	0.22µF	10%	6.3V
C7659	1-218-990-81	SHORT CHIP			
C7660	1-218-990-81	SHORT CHIP			
C7661	1-100-766-21	ELECT CHIP	47µF	20%	16V
C7662	1-164-939-11	CERAMIC CHIP	0.0022µF	10%	50V
C7665	1-100-581-81	CERAMIC CHIP	0.0047µF	10%	50V
C7667	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7668	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7671	1-100-766-21	ELECT CHIP	47µF	20%	16V
C7675	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7676	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7677	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7678	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7679	1-112-781-11	CERAMIC CHIP	1µF	10%	10V
C7680	1-164-840-11	CERAMIC CHIP	1pF	0.25pF	50V
C7681	1-164-840-11	CERAMIC CHIP	1pF	0.25pF	50V
C7688	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7689	1-164-860-11	CERAMIC CHIP	27pF	5%	50V
C7697	1-112-001-81	CERAMIC CHIP	270pF	5%	50V
C7698	1-135-366-11	ELECT CHIP	100µF	20%	16V
C7699	1-112-001-81	CERAMIC CHIP	270pF	5%	50V
C7700	1-100-766-21	ELECT CHIP	47µF	20%	16V
C7703	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C7704	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7705	1-114-482-11	ELECT CHIP	1000µF	20%	6.3V
C7707	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7709	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7710	1-100-769-21	ELECT CHIP	470µF	20%	16V
C7712	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7713	1-114-332-11	CERAMIC CHIP	22µF	10%	6.3V
C7714	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7716	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
C7717	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7718	1-100-769-21	ELECT CHIP	470µF	20%	16V
C7719	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7721	1-164-862-11	CERAMIC CHIP	33pF	5%	50V
C7722	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7725	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C7726	1-164-866-11	CERAMIC CHIP	47pF	5%	50V
C7727	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
C7782	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7783	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7784	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7785	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7787	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7788	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7789	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7790	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7791	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7792	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7793	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7794	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7795	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7796	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7797	1-100-916-11	CERAMIC CHIP	0.1µF	10%	16V
C7798	1-107-819-11	CERAMIC CHIP	0.022µF	10%	16V
C9122	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C9123	1-114-520-11	CAP, CERAMIC	1MF X6S (1410)		
C9124	1-114-354-11	CAP, CERAMIC	0.1MF X7R (1410)		
C9126	1-100-909-11	CERAMIC CHIP	10µF	10%	6.3V
C9159	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C9160	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
	C9161	1-100-905-11	CERAMIC CHIP	0.001µF	10%	50V
	C9162	1-112-777-11	CERAMIC CHIP	0.01µF	10%	25V
	C9163	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
		CONNECTOR				
	CN1301	1-821-013-11	D SUB CONNECTOR			
	CN2000	1-819-461-11	HEADER ASSEMBLY FOR PWB			
*	CN2001	1-819-333-11	HEADER ASSEMBLY FOR PWB			
*	CN2002	1-819-443-11	HEADER ASEEMBLY FOR PWB			
	CN3004	1-779-936-51	CONNECTOR, FFC/FPC		18P	
	CN3008	1-821-139-11	HEADER ASSEMBLY FOR PWB			
	CN4001	1-819-797-11	HEADER ASSEMBLY FOR PWB			
*	CN4003	1-820-182-11	HEADER ASSEMBLY (PRINT PWB)			
	CN7507	1-819-866-11	CONNECTOR, USB (A)			
*	CN9102	1-818-656-21	HEADER ASSEMBLY		30P	
		DIODE				
	D1301	6-502-318-01	DIODE	MA4J1130GLS0		
	D2002	6-501-817-01	DIODE	MA2J1110GLS0		
	D2008	6-501-817-01	DIODE	MA2J1110GLS0		
⚠	D2014	6-501-756-01	DIODE	MAZ8091GMLS0		
	D2017	6-502-318-01	DIODE	MA4J1130GLS0		
	D2018	6-501-758-01	DIODE	MAZ8100G0LS0		
	D2019	6-501-758-01	DIODE	MAZ8100G0LS0		
	D2020	6-501-732-01	DIODE	MAZ8056G0LS0		
	D2021	6-501-732-01	DIODE	MAZ8056G0LS0		
	D2022	6-501-732-01	DIODE	MAZ8056G0LS0		
	D3002	6-501-817-01	DIODE	MA2J1110GLS0		
	D3007	6-502-318-01	DIODE	MA4J1130GLS0		
	D3020	6-501-732-01	DIODE	MAZ8056G0LS0		
	D3021	6-501-732-01	DIODE	MAZ8056G0LS0		
	D3022	6-501-732-01	DIODE	MAZ8056G0LS0		
	D3023	6-501-732-01	DIODE	MAZ8056G0LS0		
	D4012	6-501-774-01	DIODE	MAZ8150G0LS0		
	D5291	6-502-150-01	DIODE	MA2SD320G8S0		
	D5801	6-502-318-01	DIODE	MA4J1130GLS0		
	D5802	6-502-318-01	DIODE	MA4J1130GLS0		
	D5804	6-502-318-01	DIODE	MA4J1130GLS0		
	D7001	8-719-988-61	DIODE	1SS355TE-17		
	D7003	6-501-758-01	DIODE	MAZ8100G0LS0		
	D7004	6-501-743-01	DIODE	MAZ8068GMLS0		
	D7010	8-719-081-34	DIODE	RB160M-30TR		
	D7013	8-719-081-34	DIODE	RB160M-30TR		
	D7019	6-501-336-01	DIODE	RSX201L-30TE25		
	D7024	8-719-081-34	DIODE	RB160M-30TR		

	REF. NO.	PART NO.	DESCRIPTION	VALUES	
	D7201	6-501-817-01	DIODE	MA2J1110GLS0	
	D7600	8-719-058-24	DIODE	RB501V-40TE-17	
		FUSE			
	F1301	1-576-646-11	FUSE	0.5A	50V
⚠	F2000	1-576-958-21	FUSE	4A	24V
	F3001	1-576-646-11	FUSE	0.5A	50V
	F4001	1-576-933-21	FUSE	5A	24V
⚠	F7000	1-576-603-21	FUSE	3.15A	24V
	F7002	1-576-933-21	FUSE	5A	24V
		FERRITE BEAD			
	FB1202	1-400-089-21	FERRITE	0µH	
	FB1203	1-400-089-21	FERRITE	0µH	
	FB1301	1-469-100-21	FERRITE	0µH	
	FB1302	1-469-100-21	FERRITE	0µH	
	FB1303	1-469-100-21	FERRITE	0µH	
	FB1304	1-469-100-21	FERRITE	0µH	
	FB2000	1-400-212-22	FERRITE	0µH	
	FB2012	1-400-089-21	FERRITE	0µH	
	FB2013	1-400-089-21	FERRITE	0µH	
	FB2014	1-400-089-21	FERRITE	0µH	
	FB2030	1-400-089-21	FERRITE	0µH	
	FB2031	1-400-089-21	FERRITE	0µH	
	FB2032	1-400-089-21	FERRITE	0µH	
	FB2033	1-400-089-21	FERRITE	0µH	
	FB2034	1-400-089-21	FERRITE	0µH	
	FB2035	1-400-089-21	FERRITE	0µH	
	FB3001	1-500-922-11	FERRITE	0µH	
	FB3002	1-500-922-11	FERRITE	0µH	
	FB3003	1-500-922-11	FERRITE	0µH	
	FB3004	1-469-100-21	FERRITE	0µH	
	FB4001	1-400-089-21	FERRITE	0µH	
	FB4003	1-400-089-21	FERRITE	0µH	
	FB4005	1-500-922-11	FERRITE	0µH	
	FB4008	1-400-591-22	FERRITE	0µH	
	FB4009	1-400-591-22	FERRITE	0µH	
	FB4011	1-400-591-22	FERRITE	0µH	
	FB4013	1-400-089-21	FERRITE	0µH	
	FB5205	1-500-922-11	FERRITE	0µH	
	FB5211	1-500-922-11	FERRITE	0µH	
	FB5212	1-400-462-21	FERRITE	0µH	
	FB5213	1-400-462-21	FERRITE	0µH	
	FB5261	1-469-100-21	FERRITE	0µH	
	FB7000	1-400-794-21	FERRITE	0µH	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
FB7201	1-400-179-21	FERRITE	0µH
FB7203	1-400-179-21	FERRITE	0µH
FB7205	1-400-179-21	FERRITE	0µH
FB7207	1-400-179-21	FERRITE	0µH
FB7400	1-414-760-21	FERRITE	0µH
FB7502	1-400-462-21	FERRITE	0µH
FB7507	1-400-089-21	FERRITE	0µH
FB7508	1-400-089-21	FERRITE	0µH
FB7600	1-400-462-21	FERRITE	0µH
FB7601	1-400-462-21	FERRITE	0µH
FB7602	1-400-462-21	FERRITE	0µH
FB7603	1-400-462-21	FERRITE	0µH
FB7604	1-400-462-21	FERRITE	0µH
FB7605	1-400-462-21	FERRITE	0µH
FB7611	1-400-940-21	FERRITE	0µH
FB7612	1-500-922-11	FERRITE	0µH
FB7613	1-400-834-11	FERRITE	0µH
FB7614	1-400-834-11	FERRITE	0µH
FB9120	1-500-922-11	FERRITE	0µH

FILTER

FL3001	1-234-177-21	FERRITE	0µH
FL5262	1-234-177-21	FERRITE	0µH
FL5801	1-456-844-11	INDUCTOR	0µH
FL5802	1-456-844-11	INDUCTOR	0µH
FL5805	1-456-844-11	INDUCTOR	0µH
FL5806	1-456-844-11	INDUCTOR	0µH
FL7200	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL7201	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL7202	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL7500	1-234-939-21	FILTER, EMI REMOVAL (SMD)	
FL7501	1-234-939-21	FILTER, EMI REMOVAL (SMD)	

IC

IC1001	8-759-278-58	IC	NJM4558V-TE2
IC1301	6-704-600-01	IC	M24C02-WMN6T(B)
IC2004	8-759-278-58	IC	NJM4558V-TE2
IC2005	8-759-460-79	IC	BA09FP-E2
IC2008	6-709-927-01	IC	RT8H225C-TP-2
IC2010	8-759-359-49	IC	NJM3414AV(TE2)
IC2011	6-709-927-01	IC	RT8H225C-TP-2
IC2013	6-701-105-01	IC	NJM2750M-TE2
IC2014	6-707-181-01	IC	AK5366VQ-L
IC2015	6-704-819-01	IC	CS4335-KSZR
IC2016	6-704-819-01	IC	CS4335-KSZR
IC2017	6-712-648-01	IC	TFA9810T-N1
IC2018	8-759-278-58	IC	NJM4558V-TE2
IC3005	6-704-600-01	IC	M24C02-WMN6T(B)
IC3007	6-709-731-01	IC	ADT75ARZ-REEL
IC3009	6-709-517-01	IC	S-35390A-J8T1G
IC3010	6-801-402-01	IC	BD4729GTR
IC3011	6-806-734-01	IC	MB95F118ASPMT-G-SPE1
IC5203	6-707-846-01	IC	TC74LCX14FT(EKJ)
IC5802	6-709-901-01	IC	MM3121JPLE
IC7000	6-712-655-01	IC	215-0642001-00
IC7001	6-708-171-01	IC	MIC5235YM5TR
⚠ IC7004	6-712-657-01	IC	BD9536FV-E2
⚠ IC7005	6-712-657-01	IC	BD9536FV-E2
IC7007	6-712-658-01	IC	BD9322EFJ-E2
IC7200	6-703-175-01	IC	PST3629UL
IC7400	6-706-487-01	IC	TC7SH08FU(T5RSOYJF)
IC7401	6-712-650-01	IC	HYB18TC512160B2F-2.5
IC7402	6-709-585-01	IC	K9F5608U0D-PIB0T
IC7405	6-807-556-01	IC	M25P40-VMN6TP
IC7501	6-710-624-01	IC	TPS2051BDRG4
IC7600	8-759-338-95	IC	NJM2903V(TE2)

JACK

	J1001	1-780-488-11	S TERMINAL BLOCK	
*	J1004	1-821-418-11	PIN JACK BLOCK	1P
	J1051	1-821-115-11	PHONO JACK (RIGHT ANGLE)	
	J1203	1-820-638-11	JACK (SMALL TYPE)	
	J1205	1-815-325-11	JACK	
*	J1206	1-821-879-11	CONNECTOR, SQUARE TYPE (RECE)	
	J1207	1-821-064-11	PHONO JACK	10P
	J5101	1-822-256-11	HDMI CONNECTOR	
	J5102	1-822-256-11	HDMI CONNECTOR	

COIL

L1000	1-412-058-11	INDUCTOR	10µH
L1011	1-412-975-31	INDUCTOR	0.47µH
L1012	1-412-975-31	INDUCTOR	0.47µH
L1013	1-412-975-31	INDUCTOR	0.47µH
L1014	1-412-975-31	INDUCTOR	0.47µH
L1015	1-412-975-31	INDUCTOR	0.47µH
L1016	1-412-975-31	INDUCTOR	0.47µH
L2011	1-469-555-21	INDUCTOR	10µH
L2016	1-481-083-11	INDUCTOR	22µH
L2017	1-412-058-11	INDUCTOR	10µH

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	REF. NO.	PART NO.	DESCRIPTION	VALUES
	L2018	1-457-429-11	INDUCTOR	22µH
	L2019	1-457-429-11	INDUCTOR	22µH
	L2022	1-469-555-21	INDUCTOR	10µH
	L2025	1-469-555-21	INDUCTOR	10µH
	L2029	1-469-555-21	INDUCTOR	10µH
	L2030	1-457-429-11	INDUCTOR	22µH
	L2031	1-457-429-11	INDUCTOR	22µH
	L3002	1-400-794-21	FERRITE	0µH
	L5801	1-469-555-21	INDUCTOR	10µH
	L5802	1-469-555-21	INDUCTOR	10µH
	L5803	1-469-555-21	INDUCTOR	10µH
	L7001	1-416-740-11	INDUCTOR	10µH
	L7004	1-457-247-21	INDUCTOR	4.7µH
	L7005	1-457-247-21	INDUCTOR	4.7µH
	L7007	1-400-193-11	INDUCTOR	3.3µH
	L7008	1-424-922-21	INDUCTOR	10µH
	L7131	1-457-247-21	INDUCTOR	4.7µH
	L7400	1-400-179-21	FERRITE	0µH
*	L7500	1-813-308-11	INDUCTOR	0µH
	L7501	1-400-180-21	FERRITE	0µH
	L7502	1-400-180-21	FERRITE	0µH
	L7503	1-400-180-21	FERRITE	0µH
	L7504	1-400-180-21	FERRITE	0µH
	L7505	1-400-180-21	FERRITE	0µH
	L7506	1-400-180-21	FERRITE	0µH
	L7507	1-400-180-21	FERRITE	0µH
	L7508	1-400-180-21	FERRITE	0µH
	L7600	1-400-179-21	FERRITE	0µH
	L7607	1-216-864-11	SHORT CHIP	
	L7608	1-216-864-11	SHORT CHIP	
	L7610	1-469-555-21	INDUCTOR	10µH
	L7611	1-412-972-31	INDUCTOR	0.27µH
	L7612	1-412-972-31	INDUCTOR	0.27µH
	L7613	1-469-555-21	INDUCTOR	10µH
	L7614	1-469-555-21	INDUCTOR	10µH
	L7617	1-469-555-21	INDUCTOR	10µH
	L7620	1-469-555-21	INDUCTOR	10µH
	L7622	1-469-555-21	INDUCTOR	10µH
	L7623	1-469-556-21	INDUCTOR	15µH
	L7624	1-469-556-21	INDUCTOR	15µH
	L9111	1-400-177-21	FERRITE	0µH
	L9113	1-457-540-11	INDUCTOR	0µH
	L9114	1-457-540-11	INDUCTOR	0µH
	L9115	1-457-540-11	INDUCTOR	0µH

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
		IC LINK				
⚠	PS7001	1-576-925-11	IC LINK	3.15A	0V	
		TRANSISTOR				
	Q2006	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
	Q2007	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q2008	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q2009	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q2010	8-729-013-28	TRANSISTOR	HN1B01FU-TE85R		
	Q2012	6-551-271-01	TRANSISTOR	RT3AMMM		
	Q2013	6-551-271-01	TRANSISTOR	RT3AMMM		
	Q2016	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q2017	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q2018	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q2019	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q2020	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q2021	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q2025	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q2026	6-551-364-01	TRANSISTOR	DTC614TUT106		
	Q3007	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q4001	6-551-551-01	TRANSISTOR	RT3N77M-TP-1		
	Q4011	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q4014	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
	Q4017	6-551-551-01	TRANSISTOR	RT3N77M-TP-1		
	Q4018	8-729-054-36	TRANSISTOR	UPA1716G-E2		
	Q4021	6-551-815-01	TRANSISTOR	UNR52A1G0LS0		
⚠	Q7000	8-729-046-04	TRANSISTOR	FDS6690A		
	Q7004	6-551-580-01	TRANSISTOR	FDQ7238AS		
	Q7006	8-729-427-42	TRANSISTOR	XP4211		
	Q7600	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
	Q7601	6-551-775-01	TRANSISTOR	2SA2122G0LS0		
	Q7602	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
	Q7603	6-551-271-01	TRANSISTOR	RT3AMMM		
		RESISTOR				
	R1004	1-211-990-11	METAL CHIP	75	0.50%	1/10W
	R1005	1-218-985-11	METAL CHIP	470K	5%	1/16W
	R1006	1-218-965-11	METAL CHIP	10K	5%	1/16W
	R1007	1-218-985-11	METAL CHIP	470K	5%	1/16W
	R1008	1-218-965-11	METAL CHIP	10K	5%	1/16W
	R1009	1-211-990-11	METAL CHIP	75	0.50%	1/10W
	R1011	1-211-990-11	METAL CHIP	75	0.50%	1/10W
	R1013	1-211-990-11	METAL CHIP	75	0.50%	1/10W
	R1014	1-211-990-11	METAL CHIP	75	0.50%	1/10W
	R1039	1-218-969-11	METAL CHIP	22K	5%	1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R1040	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1041	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1042	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1043	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1044	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1045	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1046	1-218-969-11	METAL CHIP	22K	5%	1/16W
R1047	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1048	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R1053	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1054	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1055	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1056	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1101	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1102	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1103	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1104	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1105	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1106	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1107	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1108	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1201	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1202	1-218-981-91	METAL CHIP	220K	5%	1/16W
R1203	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R1204	1-218-981-91	METAL CHIP	220K	5%	1/16W
R1205	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1206	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1207	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1208	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1211	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1212	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1214	1-218-985-11	METAL CHIP	470K	5%	1/16W
R1215	1-218-965-11	METAL CHIP	10K	5%	1/16W
R1217	1-218-990-81	SHORT CHIP			
R1301	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R1302	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R1303	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R1304	1-218-953-11	METAL CHIP	1K	5%	1/16W
R1306	1-218-977-11	METAL CHIP	100K	5%	1/16W
R1529	1-218-990-81	SHORT CHIP			
R1530	1-218-990-81	SHORT CHIP			
R1866	1-216-864-11	SHORT CHIP			
R1867	1-216-864-11	SHORT CHIP			
R1868	1-216-864-11	SHORT CHIP			
R1876	1-216-864-11	SHORT CHIP			
R1877	1-216-864-11	SHORT CHIP			
R1885	1-216-864-11	SHORT CHIP			
R1913	1-216-864-11	SHORT CHIP			
R1921	1-216-864-11	SHORT CHIP			
R1953	1-216-295-91	SHORT CHIP			
R2110	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R2111	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R2126	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2130	1-208-697-11	METAL CHIP	3.9K	0.50%	1/16W
R2131	1-208-697-11	METAL CHIP	3.9K	0.50%	1/16W
R2138	1-218-985-11	METAL CHIP	470K	5%	1/16W
R2139	1-218-985-11	METAL CHIP	470K	5%	1/16W
R2141	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R2142	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R2148	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2149	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2150	1-218-969-11	METAL CHIP	22K	5%	1/16W
R2151	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R2153	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2161	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2163	1-218-990-81	SHORT CHIP			
R2166	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2167	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2168	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R2169	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2170	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2171	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R2176	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2178	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2179	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2180	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2181	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2184	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2185	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2186	1-216-813-11	METAL CHIP	220	5%	1/10W
R2187	1-216-813-11	METAL CHIP	220	5%	1/10W
R2198	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R2200	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2201	1-218-990-81	SHORT CHIP			
R2202	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2204	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2205	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2206	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2212	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R2213	1-208-711-11	METAL CHIP	15K	0.50%	1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES			REF. NO.	PART NO.	DESCRIPTION	VALUES		
R2214	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2323	1-218-977-11	METAL CHIP	100K	5%	1/16W
R2215	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2324	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2216	1-218-977-11	METAL CHIP	100K	5%	1/16W	R2325	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2217	1-218-977-11	METAL CHIP	100K	5%	1/16W	R2326	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2222	1-218-973-11	METAL CHIP	47K	5%	1/16W	R2327	1-218-941-81	METAL CHIP	100	5%	1/16W
R2227	1-218-973-11	METAL CHIP	47K	5%	1/16W	R2328	1-218-941-81	METAL CHIP	100	5%	1/16W
R2228	1-469-083-21	FERRITE	0µH			R2329	1-218-941-81	METAL CHIP	100	5%	1/16W
R2229	1-469-083-21	FERRITE	0µH			R2330	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2230	1-220-198-11	METAL CHIP	20K	5%	1/16W	R2331	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2231	1-220-198-11	METAL CHIP	20K	5%	1/16W	R2332	1-218-973-11	METAL CHIP	47K	5%	1/16W
R2232	1-469-083-21	FERRITE	0µH			R2333	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R2233	1-469-083-21	FERRITE	0µH			R2334	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R2234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2335	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R2235	1-216-813-11	METAL CHIP	220	5%	1/10W	R2341	1-216-864-11	SHORT CHIP			
R2236	1-216-807-11	METAL CHIP	68	5%	1/10W	R2342	1-208-687-11	METAL CHIP	1.5K	0.50%	1/16W
R2237	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2343	1-208-687-11	METAL CHIP	1.5K	0.50%	1/16W
R2238	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2344	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2239	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2345	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2249	1-218-941-81	METAL CHIP	100	5%	1/16W	R2346	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2250	1-218-990-81	SHORT CHIP				R2347	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R2251	1-218-953-11	METAL CHIP	1K	5%	1/16W	R2348	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2252	1-218-961-11	METAL CHIP	4.7K	5%	1/16W	R2349	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R2257	1-218-982-11	METAL CHIP	270K	5%	1/16W	R2350	1-208-905-11	METAL CHIP	5.6K	0.50%	1/16W
R2258	1-218-982-11	METAL CHIP	270K	5%	1/16W	R2351	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R2259	1-218-982-11	METAL CHIP	270K	5%	1/16W	R2352	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2260	1-218-982-11	METAL CHIP	270K	5%	1/16W	R2353	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2264	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2354	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2265	1-218-950-11	METAL CHIP	560	5%	1/16W	R2355	1-218-965-11	METAL CHIP	10K	5%	1/16W
R2266	1-218-950-11	METAL CHIP	560	5%	1/16W	R2356	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2267	1-218-950-11	METAL CHIP	560	5%	1/16W	R2357	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2268	1-218-950-11	METAL CHIP	560	5%	1/16W	R2358	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2272	1-218-941-81	METAL CHIP	100	5%	1/16W	R2359	1-218-981-91	METAL CHIP	220K	5%	1/16W
R2276	1-218-973-11	METAL CHIP	47K	5%	1/16W	R2363	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R2281	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W	R2368	1-216-001-00	METAL CHIP	10	5%	1/10W
R2282	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W	R2369	1-216-001-00	METAL CHIP	10	5%	1/10W
R2283	1-218-990-81	SHORT CHIP				R2370	1-216-001-00	METAL CHIP	10	5%	1/10W
R2285	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W	R2372	1-216-001-00	METAL CHIP	10	5%	1/10W
R2290	1-218-965-11	METAL CHIP	10K	5%	1/16W	R2374	1-216-001-00	METAL CHIP	10	5%	1/10W
R2291	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3020	1-218-879-11	METAL CHIP	22K	0.50%	1/10W
R2292	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3031	1-208-931-11	METAL CHIP	68K	0.50%	1/16W
R2293	1-218-965-11	METAL CHIP	10K	5%	1/16W	R3034	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W
R2319	1-216-864-11	SHORT CHIP				R3037	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R2320	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3101	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R2321	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3146	1-218-941-81	METAL CHIP	100	5%	1/16W
R2322	1-218-973-11	METAL CHIP	47K	5%	1/16W	R3180	1-218-965-11	METAL CHIP	10K	5%	1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R3190	1-208-886-81	METAL CHIP	910	0.50%	1/16W
R3218	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R3243	1-218-941-81	METAL CHIP	100	5%	1/16W
R3249	1-218-935-11	METAL CHIP	33	5%	1/16W
R3270	1-218-941-81	METAL CHIP	100	5%	1/16W
R3515	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3516	1-218-941-81	METAL CHIP	100	5%	1/16W
R3517	1-218-989-11	METAL CHIP	1M	5%	1/16W
R3519	1-218-941-81	METAL CHIP	100	5%	1/16W
R3527	1-218-941-81	METAL CHIP	100	5%	1/16W
R3536	1-218-941-81	METAL CHIP	100	5%	1/16W
R3537	1-218-965-11	METAL CHIP	10K	5%	1/16W
R3540	1-218-941-81	METAL CHIP	100	5%	1/16W
R3542	1-218-970-11	METAL CHIP	27K	5%	1/16W
R3544	1-218-990-81	SHORT CHIP			
R3545	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R4007	1-218-979-11	METAL CHIP	150K	5%	1/16W
R4008	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4013	1-218-977-11	METAL CHIP	100K	5%	1/16W
R4042	1-218-977-11	METAL CHIP	100K	5%	1/16W
R4043	1-218-971-11	METAL CHIP	33K	5%	1/16W
R4047	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R4050	1-218-971-11	METAL CHIP	33K	5%	1/16W
R4060	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4061	1-218-983-11	METAL CHIP	330K	5%	1/16W
R4063	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R4064	1-218-965-11	METAL CHIP	10K	5%	1/16W
R4065	1-218-971-11	METAL CHIP	33K	5%	1/16W
R5215	1-218-933-11	METAL CHIP	22	5%	1/16W
R5222	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5801	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R5803	1-216-864-11	SHORT CHIP			
R5804	1-218-446-11	METAL CHIP	1	5%	1/10W
R5805	1-218-947-11	METAL CHIP	330	5%	1/16W
R5807	1-218-947-11	METAL CHIP	330	5%	1/16W
R5809	1-218-947-11	METAL CHIP	330	5%	1/16W
R5810	1-218-947-11	METAL CHIP	330	5%	1/16W
R5811	1-218-970-11	METAL CHIP	27K	5%	1/16W
R5829	1-218-933-11	METAL CHIP	22	5%	1/16W
R5830	1-218-955-11	METAL CHIP	1.5K	5%	1/16W
R5831	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R5832	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5833	1-208-927-11	METAL CHIP	47K	0.50%	1/16W
R5834	1-218-965-11	METAL CHIP	10K	5%	1/16W
R5837	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R5838	1-218-941-81	METAL CHIP	100	5%	1/16W
R5840	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R7000	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7001	1-218-947-11	METAL CHIP	330	5%	1/16W
R7003	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7005	1-208-703-11	METAL CHIP	6.8K	0.50%	1/16W
R7009	1-208-931-11	METAL CHIP	68K	0.50%	1/16W
R7010	1-218-985-11	METAL CHIP	470K	5%	1/16W
R7017	1-469-553-21	INDUCTOR	4.7µH		
R7029	1-218-990-81	SHORT CHIP			
R7031	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7033	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7035	1-218-971-11	METAL CHIP	33K	5%	1/16W
R7037	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7038	1-218-929-11	METAL CHIP	10	5%	1/16W
R7040	1-218-929-11	METAL CHIP	10	5%	1/16W
R7041	1-208-695-11	METAL CHIP	3.3K	0.50%	1/16W
R7043	1-208-675-11	METAL CHIP	470	0.50%	1/16W
R7044	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7045	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R7046	1-208-699-11	METAL CHIP	4.7K	0.50%	1/16W
R7047	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R7048	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7049	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R7050	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7053	1-218-990-81	SHORT CHIP			
R7054	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R7055	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7056	1-218-929-11	METAL CHIP	10	5%	1/16W
R7058	1-218-929-11	METAL CHIP	10	5%	1/16W
R7059	1-208-675-11	METAL CHIP	470	0.50%	1/16W
R7060	1-208-671-11	METAL CHIP	330	0.50%	1/16W
R7062	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7063	1-218-990-81	SHORT CHIP			
R7064	1-208-691-11	METAL CHIP	2.2K	0.50%	1/16W
R7065	1-208-860-81	METAL CHIP	75	0.50%	1/16W
R7066	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7067	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R7068	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7069	1-218-971-11	METAL CHIP	33K	5%	1/16W
R7070	1-218-963-11	METAL CHIP	6.8K	5%	1/16W
R7071	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7073	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7074	1-218-971-11	METAL CHIP	33K	5%	1/16W
R7075	1-208-711-11	METAL CHIP	15K	0.50%	1/16W

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
R7077	1-218-979-11	METAL CHIP	150K	5%	1/16W
R7092	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7093	1-218-990-81	SHORT CHIP			
R7094	1-208-939-11	METAL CHIP	150K	0.50%	1/16W
R7095	1-208-923-11	METAL CHIP	33K	0.50%	1/16W
R7110	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7111	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7112	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7113	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7114	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7173	1-218-990-81	SHORT CHIP			
R7200	1-208-898-81	METAL CHIP	3K	0.50%	1/16W
R7201	1-211-969-11	METAL CHIP	10	0.50%	1/10W
R7203	1-218-990-81	SHORT CHIP			
R7205	1-218-961-11	METAL CHIP	4.7K	5%	1/16W
R7337	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7404	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7405	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7406	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7411	1-218-938-11	METAL CHIP	56	5%	1/16W
R7412	1-218-938-11	METAL CHIP	56	5%	1/16W
R7420	1-218-941-81	METAL CHIP	100	5%	1/16W
R7477	1-218-990-81	SHORT CHIP			
R7482	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7484	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7486	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7489	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7491	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7497	1-208-911-11	METAL CHIP	10K	0.50%	1/16W
R7508	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R7515	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7522	1-218-941-81	METAL CHIP	100	5%	1/16W
R7523	1-218-941-81	METAL CHIP	100	5%	1/16W
R7524	1-218-935-11	METAL CHIP	33	5%	1/16W
R7529	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7543	1-218-977-11	METAL CHIP	100K	5%	1/16W
R7544	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7547	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7550	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7552	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7555	1-218-967-11	METAL CHIP	15K	5%	1/16W
R7600	1-218-949-11	METAL CHIP	470	5%	1/16W
R7601	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7602	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7603	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7604	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7606	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7607	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7608	1-211-990-11	METAL CHIP	75	0.50%	1/10W
R7609	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7610	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7613	1-208-697-11	METAL CHIP	3.9K	0.50%	1/16W
R7615	1-218-958-11	METAL CHIP	2.7K	5%	1/16W
R7616	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7617	1-208-928-11	METAL CHIP	51K	0.50%	1/16W
R7618	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7623	1-218-941-81	METAL CHIP	100	5%	1/16W
R7624	1-218-989-11	METAL CHIP	1M	5%	1/16W
R7627	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7628	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7630	1-218-959-11	METAL CHIP	3.3K	5%	1/16W
R7631	1-218-941-81	METAL CHIP	100	5%	1/16W
R7637	1-208-928-11	METAL CHIP	51K	0.50%	1/16W
R7638	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7651	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7653	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7654	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7655	1-218-969-11	METAL CHIP	22K	5%	1/16W
R7659	1-218-941-11	METAL CHIP	100	5%	1/16W
R7660	1-208-683-11	METAL CHIP	1K	0.50%	1/16W
R7661	1-208-871-81	METAL CHIP	220	0.50%	1/16W
R7662	1-208-711-11	METAL CHIP	15K	0.50%	1/16W
R7663	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7666	1-218-978-11	METAL CHIP	120K	5%	1/16W
R7667	1-218-990-81	SHORT CHIP			
R7669	1-218-990-81	SHORT CHIP			
R7673	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7730	1-216-797-11	METAL CHIP	10	5%	1/10W
R7731	1-218-957-11	METAL CHIP	2.2K	5%	1/16W
R7732	1-216-797-11	METAL CHIP	10	5%	1/10W
R7733	1-218-953-11	METAL CHIP	1K	5%	1/16W
R7950	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7951	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7953	1-218-965-11	METAL CHIP	10K	5%	1/16W
R7957	1-218-965-11	METAL CHIP	10K	5%	1/16W
R9175	1-218-990-81	SHORT CHIP			
R9177	1-218-990-81	SHORT CHIP			
R9178	1-218-990-81	SHORT CHIP			
R9179	1-218-941-81	METAL CHIP	100	5%	1/16W
R9184	1-218-990-81	SHORT CHIP			

BM4

REF. NO.	PART NO.	DESCRIPTION	VALUES
R9185	1-218-990-81	SHORT CHIP	
R9210	1-218-965-11	METAL CHIP	10K 5% 1/16W
	RESISTOR BRIDGE		
RB1301	1-239-698-11	RESISTOR, NETWORK	10K
RB1302	1-239-674-81	RESISTOR, NETWORK	100
RB2001	1-234-381-11	RES, NETWORK	100K (1005X4)
RB2002	1-234-380-21	RES, NETWORK	47K (1005X4)
RB2003	1-234-380-21	RES, NETWORK	47K (1005X4)
RB2004	1-239-674-81	RESISTOR, NETWORK	100
RB2005	1-234-370-21	RES, NETWORK	22 (1005X4)
RB2006	1-234-370-21	RES, NETWORK	22 (1005X4)
RB3014	1-239-698-11	RESISTOR, NETWORK	10K
RB3015	1-239-674-81	RESISTOR, NETWORK	100
RB3017	1-239-674-81	RESISTOR, NETWORK	100
RB3018	1-239-698-11	RESISTOR, NETWORK	10K
RB3021	1-239-674-81	RESISTOR, NETWORK	100
RB3024	1-239-674-81	RESISTOR, NETWORK	100
RB3025	1-239-698-11	RESISTOR, NETWORK	10K
RB3026	1-239-674-81	RESISTOR, NETWORK	100
RB4001	1-239-698-11	RESISTOR, NETWORK	10K
RB4002	1-239-710-11	RESISTOR, NETWORK	100K
RB5806	1-239-674-81	RESISTOR, NETWORK	100
RB5807	1-239-698-11	RESISTOR, NETWORK	10K
RB5808	1-239-698-11	RESISTOR, NETWORK	10K
RB7201	1-239-674-81	RESISTOR, NETWORK	100
RB7202	1-239-674-81	RESISTOR, NETWORK	100
RB7204	1-239-674-81	RESISTOR, NETWORK	100
RB7208	1-239-698-11	RESISTOR, NETWORK	10K
RB7210	1-239-674-81	RESISTOR, NETWORK	100
RB7401	1-234-375-21	RES, NETWORK	1K (1005X4)
RB7407	1-234-378-21	RES, NETWORK	10K (1005X4)
RB7600	1-239-674-81	RESISTOR, NETWORK	100
RB7601	1-239-690-81	RESISTOR, NETWORK	2.2K
RB7602	1-239-674-81	RESISTOR, NETWORK	100
RB7670	1-239-674-81	RESISTOR, NETWORK	100
	TUNER		
TU7601	8-597-661-00	TUNER, FSS BTF-CA422T	
	VARISTOR		
VD1001	1-802-090-21	VARISTOR, CHIP	
VD1002	1-802-090-21	VARISTOR, CHIP	
VD1004	1-802-090-21	VARISTOR, CHIP	
VD1008	1-802-090-21	VARISTOR, CHIP	
VD1009	1-802-090-21	VARISTOR, CHIP	
VD1010	1-802-090-21	VARISTOR, CHIP	
VD1011	1-802-090-21	VARISTOR, CHIP	
VD1012	1-802-090-21	VARISTOR, CHIP	
VD1013	1-802-090-21	VARISTOR, CHIP	
VD1014	1-802-090-21	VARISTOR, CHIP	
VD1015	1-802-090-21	VARISTOR, CHIP	
VD1016	1-802-090-21	VARISTOR, CHIP	
VD1017	1-802-090-21	VARISTOR, CHIP	
VD1018	1-802-090-21	VARISTOR, CHIP	
VD1019	1-802-090-21	VARISTOR, CHIP	
VD1020	1-802-090-21	VARISTOR, CHIP	
VD1021	1-802-090-21	VARISTOR, CHIP	
VD1022	1-802-090-21	VARISTOR, CHIP	
VD1023	1-802-090-21	VARISTOR, CHIP	
VD1024	1-802-090-21	VARISTOR, CHIP	
VD1025	1-802-090-21	VARISTOR, CHIP	
VD1026	1-802-090-21	VARISTOR, CHIP	
VD1027	1-802-090-21	VARISTOR, CHIP	
VD1028	1-802-090-21	VARISTOR, CHIP	
VD1029	1-802-090-21	VARISTOR, CHIP	
VD1030	1-802-090-21	VARISTOR, CHIP	
VD1051	1-802-090-21	VARISTOR, CHIP	
VD1101	1-802-090-21	VARISTOR, CHIP	
VD1102	1-802-090-21	VARISTOR, CHIP	
VD1103	1-802-090-21	VARISTOR, CHIP	
VD1121	1-802-090-21	VARISTOR, CHIP	
VD1122	1-802-090-21	VARISTOR, CHIP	
VD1123	1-802-090-21	VARISTOR, CHIP	
VD1214	1-802-090-21	VARISTOR, CHIP	
VD1215	1-802-090-21	VARISTOR, CHIP	
VD1301	1-802-090-21	VARISTOR, CHIP	
VD1302	1-802-090-21	VARISTOR, CHIP	
VD1303	1-802-090-21	VARISTOR, CHIP	
VD1304	1-802-090-21	VARISTOR, CHIP	
VD1305	1-802-090-21	VARISTOR, CHIP	
VD1306	1-802-090-21	VARISTOR, CHIP	
VD1307	1-802-090-21	VARISTOR, CHIP	
VD1308	1-802-090-21	VARISTOR, CHIP	
VD5208	1-802-090-21	VARISTOR, CHIP	
VD5209	1-802-090-21	VARISTOR, CHIP	

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

BM4 G1D G2D GK2

REF. NO.	PART NO.	DESCRIPTION	VALUES
VD5210	1-802-090-21	VARISTOR, CHIP	
VD5219	1-802-090-21	VARISTOR, CHIP	
VD5220	1-802-090-21	VARISTOR, CHIP	
VD5221	1-802-090-21	VARISTOR, CHIP	
VD5222	1-802-090-21	VARISTOR, CHIP	
VD5810	1-802-090-21	VARISTOR, CHIP	
VD5811	1-802-090-21	VARISTOR, CHIP	
VD7506	1-802-090-21	VARISTOR, CHIP	
VD7507	1-802-090-21	VARISTOR, CHIP	
VD7508	1-802-090-21	VARISTOR, CHIP	
	CRYSTAL		
X3009	1-813-784-21	VIBRATOR, CRYSTAL	
X3010	1-767-984-21	VIBRATOR, CRYSTAL	
X7200	1-814-134-21	VIBRATOR, CRYSTAL	

G1D

1-474-099-12 G1D BOARD, COMPLETE (POWER UNIT) (KDL-32FA500 ONLY)

This board is manufactured by a 3rd party.

Component level repair information is not available.

G2D

1-474-095-12 G2D BOARD, COMPLETE (POWER UNIT) (KDL-37FA500 ONLY)

This board is manufactured by a 3rd party.

Component level repair information is not available.

GK2

A-1671-314-A GK2 (VAR) BOARD, MOUNTED (CHILE MODELS ONLY)

A-1671-312-A GK2 (VAR) BOARD, MOUNTED (LATIN AMERICA MODELS ONLY)

4-382-854-01	SCREW (M3X8), P, SW (+)	
4-382-854-11	SCREW (M3X10), P, SW (+)	

CAPACITOR

C601	1-165-529-31	MYLAR	0.22µF	10	0V
C602	1-119-890-51	CERAMIC	100pF	10%	250V
C603	1-119-890-51	CERAMIC	100pF	10%	250V
C613	1-114-304-11	ELECT(BLOCK)	470µF	20%	225V
C614	1-117-214-11	CERAMIC	0.001µF	10%	2KV

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C616	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
⚠ C617	1-128-526-11	ELECT	100µF	20%	25V
C618	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C620	1-107-906-11	ELECT	10µF	20%	50V
C621	1-125-782-91	CERAMIC	4700pF	10%	1KV
C622	1-128-549-11	ELECT	3300µF	20%	35V
C623	1-128-549-11	ELECT	3300µF	20%	35V
C624	1-100-436-91	CERAMIC CHIP	0.033µF	10%	25V
C628	1-100-436-91	CERAMIC CHIP	0.033µF	10%	25V
C629	1-162-960-11	CERAMIC CHIP	220pF	10%	50V
C633	1-119-890-51	CERAMIC	100pF	10%	250V
C636	1-119-890-51	CERAMIC	100pF	10%	250V
C637	1-119-890-51	CERAMIC	100pF	10%	250V
C638	1-165-529-31	MYLAR	0.22µF	10	0V
C800	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C801	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C802	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C803	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C804	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C805	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C806	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C807	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C810	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C811	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C814	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C815	1-104-962-91	ELECT	47µF	20%	35V
C816	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C817	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C818	1-104-962-91	ELECT	47µF	20%	35V
C819	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C820	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C821	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C822	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C823	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C824	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C825	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C826	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C827	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C828	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C829	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C830	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C831	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C836	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C837	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C838	1-164-315-11	CERAMIC CHIP	470pF	5%	50V

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

GK2

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
	C839	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
	C840	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C841	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C842	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
	C843	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
	C844	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C845	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C846	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C847	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
	C848	1-164-505-11	CERAMIC CHIP	2.2µF		16V
	C849	1-164-505-11	CERAMIC CHIP	2.2µF		16V
	C850	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C851	1-164-505-11	CERAMIC CHIP	2.2µF		16V
	C852	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C853	1-164-505-11	CERAMIC CHIP	2.2µF		16V
	C854	1-128-528-11	ELECT	470µF	20%	25V
	C855	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C857	1-162-970-11	CERAMIC CHIP	0.01µF	10%	25V
	C858	1-128-528-11	ELECT	470µF	20%	25V
	C861	1-107-894-11	ELECT	220µF	20%	35V
	C862	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C863	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C864	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C865	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C866	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C867	1-115-339-11	CERAMIC CHIP	0.1µF	10%	50V
	C868	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C869	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	C872	1-100-566-91	CERAMIC CHIP	0.1µF	10%	25V
		CONNECTOR				
*	CN601	1-793-660-11	PIN, CONNECTOR (PC BOARD)			
	CN802	1-821-417-11	PIN, CONNECTOR	3P		
	CN803	1-794-368-11	SOCKET, DIN	8P		
	CN804	1-780-687-11	PUSH TERMINAL	4P		
		DIODE				
	D600	8-719-510-53	DIODE	D4SB60L		
⚠	D601	8-719-982-26	DIODE	MTZJ-33B		
	D602	8-719-923-60	DIODE	MTZJ-T-77-9.1A		
	D603	6-501-818-01	DIODE	MA2J1130GLS0		
	D604	6-500-175-01	DIODE	1E3-TB		
	D605	6-501-818-01	DIODE	MA2J1130GLS0		
	D608	8-719-058-38	DIODE	FMN-G12S		

	REF. NO.	PART NO.	DESCRIPTION	VALUES	
	D609	8-719-109-97	DIODE	RD6.8ESB2	
	D611	6-501-818-01	DIODE	MA2J1130GLS0	
	D612	8-719-109-66	DIODE	RD3.3ESB2	
		FUSE			
	F600	1-576-231-51	FUSE	4A	250V
⚠	F800	1-576-958-21	FUSE	4A	24V
		FERRITE BEAD			
	FB600	1-469-578-11	FERRITE	1.1µH	
	FB800	1-400-089-21	FERRITE	0µH	
	FB801	1-400-089-21	FERRITE	0µH	
	FB802	1-400-089-21	FERRITE	0µH	
	FB803	1-400-089-21	FERRITE	0µH	
	FB804	1-400-089-21	FERRITE	0µH	
	FB805	1-400-089-21C617	FERRITE	0µH	
	FB806	1-400-089-21	FERRITE	0µH	
		FUSE HOLDER			
	FH600	1-533-223-11	FUSE HOLDER	7.5A	250V
	FH601	1-533-223-11	FUSE HOLDER	7.5A	250V
		IC			
	IC600	6-712-952-01	IC	STR-G9656-LF1136	
	IC601	6-709-368-01	IC	MM1431ATT	(CN)
⚠	IC800	6-711-308-01	IC	TDA8932BT-N2	
⚠	IC801	6-711-308-01	IC	TDA8932BT-N2	
		JACK			
	JP873	1-780-737-11	SMD JUMPER		
	JP874	1-780-737-11	SMD JUMPER		
	JP875	1-780-737-11	SMD JUMPER		
	JP876	1-780-737-11	SMD JUMPER		
	JP877	1-780-737-11	SMD JUMPER		
	JP878	1-780-737-11	SMD JUMPER		
	JP881	1-780-737-11	SMD JUMPER		
	JP882	1-780-737-11	SMD JUMPER		
	JP884	1-780-737-11	SMD JUMPER		
	JP887	1-780-737-11	SMD JUMPER		
	JP888	1-780-737-11	SMD JUMPER		
	JP889	1-780-737-11	SMD JUMPER		
	JP890	1-780-737-11	SMD JUMPER		
	JP891	1-780-737-11	SMD JUMPER		
	JP892	1-780-737-11	SMD JUMPER		
	JP893	1-780-737-11	SMD JUMPER		
	JP898	1-780-737-11	SMD JUMPER		

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

GK2

	REF. NO.	PART NO.	DESCRIPTION	VALUES		
		COIL				
	L800	1-457-783-21	INDUCTOR	22µH		
	L801	1-457-783-21	INDUCTOR	22µH		
	L802	1-457-783-21	INDUCTOR	22µH		
	L803	1-457-783-21	INDUCTOR	22µH		
		PHOTO COUPLER				
	PH601	8-749-019-60	IC	K1010HB01		
		IC LINK				
⚠	PS600	1-533-597-41	IC LINK	5A	90V	
	PS601	1-533-597-41	IC LINK	5A	90V	
		TRANSISTOR				
	Q600	8-729-922-37	TRANSISTOR	2SD2144S-UVW		
	Q802	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q803	8-729-422-27	TRANSISTOR	2SD601A-Q		
	Q804	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
	Q805	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
	Q806	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
	Q807	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
	Q808	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
	Q809	6-551-696-01	TRANSISTOR	ISA1235AC1TP-1EF		
		RESISTOR				
	R603	1-244-202-11	WIREWOUND	1	5%	10W
	R604	1-244-202-11	WIREWOUND	1	5%	10W
	R605	1-243-598-71	METAL OXIDE	68K	5%	2W
	R606	1-260-135-11	CARBON	1M	5%	1/2W
⚠	R607	1-242-949-11	FUSIBLE	0.1	10%	1W
	R608	1-243-949-71	METAL OXIDE	0.47	5%	2W
	R609	1-216-362-21	METAL OXIDE	0.27	5%	2W
	R610	1-216-817-11	METAL CHIP	470	5%	1/10W
	R611	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
	R614	1-216-824-11	METAL CHIP	1.8K	5%	1/10W
	R615	1-249-397-11	CARBON	22	5%	1/4W
	R616	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R617	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
	R618	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R619	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
	R620	1-216-841-11	METAL CHIP	47K	5%	1/10W
	R621	1-218-875-11	METAL CHIP	15K	0.50%	1/10W
	R622	1-218-856-11	METAL CHIP	2.4K	0.50%	1/10W
	R623	1-218-853-11	METAL CHIP	1.8K	0.50%	1/10W
	R627	1-260-133-11	CARBON	680K	5%	1/2W
	R628	1-260-128-91	CARBON	270K	5%	1/2W
	R629	1-260-107-11	CARBON	4.7K	5%	1/2W
	R630	1-260-119-11	CARBON	47K	5%	1/2W
	R634	1-244-202-11	WIREWOUND	1	5%	10W
	R638	1-219-512-11	METAL	2.2M	5%	1/2W
	R800	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R801	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R802	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R803	1-216-837-11	METAL CHIP	22K	5%	1/10W
	R804	1-216-841-11	METAL CHIP	47K	5%	1/10W
	R805	1-216-841-11	METAL CHIP	47K	5%	1/10W
	R806	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R807	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R808	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R809	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R810	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R811	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R814	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R815	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	R819	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
	R821	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
	R830	1-216-001-00	METAL CHIP	10	5%	1/10W
	R831	1-216-001-00	METAL CHIP	10	5%	1/10W
	R832	1-216-001-00	METAL CHIP	10	5%	1/10W
	R833	1-216-001-00	METAL CHIP	10	5%	1/10W
	R834	1-216-009-91	METAL CHIP	22	5%	1/10W
	R835	1-216-009-91	METAL CHIP	22	5%	1/10W
	R837	1-216-009-91	METAL CHIP	22	5%	1/10W
	R838	1-216-009-91	METAL CHIP	22	5%	1/10W
	R840	1-216-821-11	METAL CHIP	1K	5%	1/10W
	R841	1-216-817-11	METAL CHIP	470	5%	1/10W
	R842	1-216-817-11	METAL CHIP	470	5%	1/10W
	R843	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R844	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R845	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R846	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R847	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R848	1-216-845-11	METAL CHIP	100K	5%	1/10W
⚠	R852	1-216-001-00	METAL CHIP	10	5%	1/10W
	R853	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R854	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R855	1-216-845-11	METAL CHIP	100K	5%	1/10W
	R856	1-216-864-11	SHORT CHIP			
	R857	1-216-864-11	SHORT CHIP			
	R858	1-216-840-11	METAL CHIP	39K	5%	1/10W

GK2 HM3 KD

REF. NO.	PART NO.	DESCRIPTION	VALUES
R860	1-216-864-11	SHORT CHIP	
R861	1-216-864-11	SHORT CHIP	
R862	1-216-864-11	SHORT CHIP	
R863	1-216-864-11	SHORT CHIP	
R864	1-216-864-11	SHORT CHIP	
R865	1-216-864-11	SHORT CHIP	
	RELAY		
RY600	1-755-622-11	RELAY (AC POWER)	
	TRANSFORMER		
T600	1-445-099-22	TRANSFORMER, LINE FILTER	
T602	1-445-099-22	TRANSFORMER, LINE FILTER	
T603	1-445-680-11	CONVERTER TRANSFORMER	
	VARISTOR		
VDR600	1-804-995-11	VARISTOR	

HM3

	A-1543-343-A	**HM3 (VAR) BOARD, MOUNTED (KDL-32FA500 ONLY)**	
	A-1543-344-A	**HM3 (VAR) BOARD, MOUNTED (KDL-37FA500 ONLY)**	
	CAPACITOR		
C320	1-112-781-11	CERAMIC CHIP	1µF 10% 10V
C322	1-107-826-11	CERAMIC CHIP	0.1µF 10% 16V
C323	1-126-205-11	ELECT CHIP	47µF 20% 6.3V
C401	1-162-960-11	CERAMIC CHIP	220pF 10% 50V
C402	1-100-909-11	CERAMIC CHIP	10µF 10% 6.3V
	CONNECTOR		
* CN301	1-820-287-11	HEADER ASSEMBLY (PRINT PWB)	
	DIODE		
D305	8-719-085-26	DIODE	CL-165HR/SYG-D-T
D308	6-502-309-01	DIODE	LNJ326W830S0
D321	6-500-817-01	DIODE	(LED) SML-512UWT86
D322	8-719-036-94	DIODE	RD5.6SB-T1
	IC		
IC401	6-600-681-01	IC	RS-770N

REF. NO.	PART NO.	DESCRIPTION	VALUES
	TRANSISTOR		
Q303	8-729-028-96	TRANSISTOR	DTC114EUA-T106
Q304	8-729-028-96	TRANSISTOR	DTC114EUA-T106
Q305	8-729-028-96	TRANSISTOR	DTC114EUA-T106
Q320	6-551-699-01	TRANSISTOR	ISA1602AM1TP-1EF
Q321	8-729-028-96	TRANSISTOR	DTC114EUA-T106
Q322	8-729-028-96	TRANSISTOR	DTC114EUA-T106
	RESISTOR		
R303	1-211-989-11	METAL CHIP	68 0.50% 1/10W
R304	1-218-823-11	METAL CHIP	100 0.50% 1/10W
R305	1-218-823-11	METAL CHIP	100 0.50% 1/10W
R321	1-216-839-11	METAL CHIP	33K 5% 1/10W
R322	1-216-821-11	METAL CHIP	1K 5% 1/10W
R323	1-216-833-11	METAL CHIP	10K 5% 1/10W
R325	1-216-864-11	SHORT CHIP	
R326	1-216-847-11	METAL CHIP	150K 5% 1/10W
R328	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R329	1-216-819-11	METAL CHIP	680 5% 1/10W
R330	1-216-835-11	METAL CHIP	15K 5% 1/10W
R332	1-216-864-11	SHORT CHIP	
R401	1-216-817-11	METAL CHIP	470 5% 1/10W
R402	1-216-805-11	METAL CHIP	47 5% 1/10W

KD

	A-1507-950-A	**KD (VAR) BOARD, MOUNTED**	
	3-300-941-01	SHIELD, KD	
	CAPACITOR		
C400	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V
C402	1-100-765-21	ELECT CHIP	10µF 20% 16V
C403	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V
C404	1-100-765-21	ELECT CHIP	10µF 20% 16V
C405	1-112-797-11	ELECT CHIP	470µF 20% 25V
C406	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V
C407	1-114-323-11	CERAMIC CHIP	0.01µF 10% 50V
C408	1-100-765-21	ELECT CHIP	10µF 20% 16V
C409	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V
C410	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C411	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V
C412	1-114-323-11	CERAMIC CHIP	0.01µF 10% 50V
C413	1-100-765-21	ELECT CHIP	10µF 20% 16V
C414	1-100-912-11	CERAMIC CHIP	1µF 10% 25V
C415	1-114-325-11	CERAMIC CHIP	0.1µF 10% 25V

KD

REF. NO.	PART NO.	DESCRIPTION	VALUES		
C416	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C417	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C418	1-125-891-11	CERAMIC CHIP	0.47µF	10%	10V
C419	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C420	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C423	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C424	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C425	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C426	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C427	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C428	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C429	1-137-942-21	ELECT CHIP	47µF	20%	25V
C430	1-162-959-11	CERAMIC CHIP	330pF	5%	50V
C431	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C432	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C433	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C434	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C438	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C439	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C440	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C441	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C442	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C443	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C444	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C445	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C446	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C447	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C448	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C449	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C450	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C451	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C452	1-164-245-11	CERAMIC CHIP	0.015µF	10%	25V
C453	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C454	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C455	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C456	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C457	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C458	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C459	1-112-514-91	CERAMIC CHIP	1500pF	5%	50V
C460	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C463	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C464	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C465	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C466	1-164-315-11	CERAMIC CHIP	470pF	5%	50V
C467	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C468	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C469	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C470	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C471	1-112-064-11	CERAMIC CHIP	2.2µF	10%	10V
C473	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C475	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C476	1-162-915-11	CERAMIC CHIP	10pF	0.50pF	50V
C477	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C478	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C479	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C480	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C482	1-100-765-21	ELECT CHIP	10µF	20%	16V
C483	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C484	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C485	1-114-323-11	CERAMIC CHIP	0.01µF	10%	50V
C486	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C487	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C488	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
C489	1-114-325-11	CERAMIC CHIP	0.1µF	10%	25V
C490	1-100-912-11	CERAMIC CHIP	1µF	10%	25V
	CONNECTOR				
CN400	1-818-714-21	HEADER ASSEMBLY 20P			
CN403	1-821-918-11	DIN SOCKET		8P	
CN404	1-821-511-11	HEADER ASSEMBLY FOR PWB			
	FUSE				
F400	1-576-958-21	FUSE	4A		24V
	FERRITE BEAD				
FB400	1-469-669-21	FERRITE	0µH		
FB401	1-469-669-21	FERRITE	0µH		
FB402	1-469-669-21	FERRITE	0µH		
FB403	1-469-669-21	FERRITE	0µH		
FB404	1-400-177-21	FERRITE	0µH		
FB405	1-400-177-21	FERRITE	0µH		
FB406	1-400-177-21	FERRITE	0µH		
FB407	1-400-177-21	FERRITE	0µH		
FB408	1-400-177-21	FERRITE	0µH		
FB409	1-400-177-21	FERRITE	0µH		
	IC				
IC400	8-759-828-44	IC	NJM2870F33(TE2)		
IC401	6-712-649-01	IC	NJU26206V(TE2)		
IC402	6-700-263-01	IC	NJM2870F18(TE2)		
IC403	6-704-819-01	IC	CS4335-KSZR		
IC404	6-704-819-01	IC	CS4335-KSZR		

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REF. NO.	PART NO.	DESCRIPTION	VALUES		
IC405	6-704-819-01	IC	CS4335-KSZR		
IC406	6-711-308-01	IC	TDA8932BT-N2		
	COIL				
L400	1-469-555-21	INDUCTOR	10µH		
L401	1-469-555-21	INDUCTOR	10µH		
L402	1-469-555-21	INDUCTOR	10µH		
L403	1-469-555-21	INDUCTOR	10µH		
L404	1-469-555-21	INDUCTOR	10µH		
L405	1-457-429-11	INDUCTOR	22µH		
L406	1-457-429-11	INDUCTOR	22µH		
	TRANSISTOR				
Q401	8-729-620-13	TRANSISTOR	2SC4154TP-1EF		
Q402	6-551-271-01	TRANSISTOR	RT3AMMM		
	RESISTOR				
R401	1-216-845-11	METAL CHIP	100K	5%	1/10W
R402	1-216-864-11	SHORT CHIP			
R403	1-216-864-11	SHORT CHIP			
R404	1-216-864-11	SHORT CHIP			
R405	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R406	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R407	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R408	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R409	1-218-832-11	METAL CHIP	240	0.50%	1/10W
R410	1-216-845-11	METAL CHIP	100K	5%	1/10W
R411	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R412	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R413	1-216-821-11	METAL CHIP	1K	5%	1/10W
R414	1-216-837-11	METAL CHIP	22K	5%	1/10W
R421	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R426	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R427	1-216-840-11	METAL CHIP	39K	5%	1/10W
R429	1-218-873-11	METAL CHIP	12K	0.50%	1/10W
R430	1-216-837-11	METAL CHIP	22K	5%	1/10W
R432	1-216-850-11	METAL CHIP	270K	5%	1/10W
R433	1-216-850-11	METAL CHIP	270K	5%	1/10W
R434	1-216-850-11	METAL CHIP	270K	5%	1/10W
R435	1-216-850-11	METAL CHIP	270K	5%	1/10W
R436	1-216-850-11	METAL CHIP	270K	5%	1/10W
R437	1-216-850-11	METAL CHIP	270K	5%	1/10W
R438	1-216-833-11	METAL CHIP	10K	5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	VALUES		
R439	1-216-833-11	METAL CHIP	10K	5%	1/10W
R440	1-216-833-11	METAL CHIP	10K	5%	1/10W
R441	1-216-833-11	METAL CHIP	10K	5%	1/10W
R442	1-216-833-11	METAL CHIP	10K	5%	1/10W
R443	1-216-833-11	METAL CHIP	10K	5%	1/10W
R444	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R445	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R446	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R447	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R448	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R449	1-218-841-11	METAL CHIP	560	0.50%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R454	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R456	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-001-00	METAL CHIP	10	5%	1/10W
R459	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R460	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R461	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R462	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R463	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R464	1-218-887-11	METAL CHIP	47K	0.50%	1/10W
R465	1-216-001-00	METAL CHIP	10	5%	1/10W
R466	1-216-864-11	SHORT CHIP			
R467	1-216-009-91	METAL CHIP	22	5%	1/10W
R469	1-216-009-91	METAL CHIP	22	5%	1/10W
R470	1-216-001-00	METAL CHIP	10	5%	1/10W
R471	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R472	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R473	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R474	1-216-041-00	METAL CHIP	470	5%	1/10W
R475	1-216-041-00	METAL CHIP	470	5%	1/10W
R476	1-216-001-00	METAL CHIP	10	5%	1/10W
R477	1-216-845-11	METAL CHIP	100K	5%	1/10W
R478	1-216-845-11	METAL CHIP	100K	5%	1/10W
R479	1-216-845-11	METAL CHIP	100K	5%	1/10W
R492	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R493	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R494	1-216-839-11	METAL CHIP	33K	5%	1/10W

NOTE: The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	VALUES
	RESISTOR BRIDGE		
RB400	1-234-370-21	RES, NETWORK 22	(1005X4)
RB401	1-234-370-21	RES, NETWORK 22	(1005X4)
RB402	1-234-370-21	RES, NETWORK 22	(1005X4)
RB403	1-234-370-21	RES, NETWORK 22	(1005X4)
RB404	1-239-674-81	RESISTOR, NETWORK 100	
	CRYSTAL		
X400	1-781-465-21	VIBRATOR, CRYSTAL	
	ACCESSORIES AND PACKING		
⚠	1-836-696-11	CORD, POWER (CHILE MODELS ONLY)	
⚠	1-836-658-11	AC POWER CORD WITH CONNECTOR (LATIN AMERICA MODELS ONLY)	
*	3-289-788-01	BAG, PROTECTION	
*	3-290-788-11	BAG, PROTECTION (40)	
*	3-287-548-11	BAG, PROTECTION (STAND)	
*	4-130-675-01	CARTON, INDIVIDUAL (KDL-32FA500 ONLY)	
*	4-130-678-01	CARTON, INDIVIDUAL (KDL-37FA500 ONLY)	
*	4-130-677-01	CUSHION, LOWER (KDL-32FA500 ONLY)	
*	4-130-680-01	CUSHION, LOWER (KDL-37FA500 ONLY)	
*	4-130-676-01	CUSHION, UPPER (KDL-32FA500 ONLY)	
*	4-130-679-01	CUSHION, UPPER (KDL-37FA500 ONLY)	
	3-299-071-01	FLYER, SAFETY	
	4-132-705-31	GUIDE, QUICK SETUP	
	4-132-706-11	INSTRUCTION, WOOFER STAND	
	4-132-704-31	MANUAL, INSTRUCTION	
*	3-274-931-61	SHEET, PROTECTION	

REF. NO.	PART NO.	DESCRIPTION	VALUES
	MISCELLANEOUS		
	2-595-155-03	CLAMP	
	2-580-606-01	SCREW, +PSW M5X8	
	(SCREWS TO ATTACH TABLE-TOP STAND TO TV)		
	For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV.		
	CAUTION: These screws cannot be used to secure the TV to Wall Mount Brackets.		
	7-632-452-24	TAPE (NO.303) 18MMX35M YEL	
	2-688-062-01	TAPE (LCD) (KDL-37FA500 ONLY)	
	2-688-062-01	TAPE (LCD)	
	1-910-044-85	WIRE ASSEMBLY, FASTON TERMINAL	
	REMOTE COMMANDER		
	1-480-692-11	REMOTE COMMANDER (RM-YD026)	
	9-885-110-88	BATTERY COVER (FOR RM-YD026)	

Sony Corporation
Sony Technology Center
Technical Services
Service Promotion Department

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APPENDIX A: ENCRYPTION KEY COMPONENTS

Encryption key components developed by Sony Corporation contain confidential information, and shall be handled under the non-disclosure obligations provided in the applicable agreement with Sony Corporation (and/or its subsidiary).

As part of this agreement specific instructions must be adhered to whenever a Circuit Board containing encryption key components is repaired and/or replaced pursuant to the following:

1) **In the service manual the Circuit Board(s) containing encryption key components shall be identified with a red outline and a .**

2) **Only repair boards or components listed in the service manual shall be utilized for replacement and/or repair.**

3) **Disassembly, decryption, or reverse-engineering component(s) is strictly prohibited.**

4) **Any board in which the Servicer replaces an encryption key component must be placed back into the set it orignally came from and the replaced defective component MUST BE DESTROYED. Boards cannot be swapped.**

5) **If a Circuit Board identified with a red outline and a in the service manual is deemed to be defective:**

   a) **and if a core charge is imposed and is covered under the product warranty, the defective un-repaired or modified board MUST BE RETURNED to Sony.**

   b) **and if the core charge is NOT covered under the product warranty, the defective un-repaired or modified board MUST BE DESTROYED.**

5) **If a unit is destroyed (such as field scrap), the Circuit Board identified with a red outline and a in the service manual MUST BE DESTROYED.**

SERVICE MANUAL MA2 CHASSIS

In an effort to reduce the size of this pdf file the tiled schematics are not attached to this Service Manual. To receive a complete set of the tiled schematics for this manual please submit a request to the Service Promotion Department at Service_Promotion@am.sony.com.